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1975

Coal in Canada: Supply and Demand

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Canada. Dept. of Energy, Mines and Resources.

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COAL IN CANADA

supply and demand



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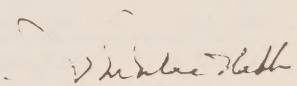
FOREWORD

The Energy Development Sector of the Department of Energy, Mines and Resources is responsible for developing federal policies and programs related to the energy resources of Canada and for coordinating such activities at the federal level with all possible cooperation and consultation with provincial governments and industry.

It is believed that these functions of policy development and coordination can best be carried out if there is the widest possible dissemination of information related to energy resources.

This report titled, "Coal In Canada 1971 - Supply and Demand" contains information that was formerly published in the Annual Reports of the Dominion Coal Board. Following dissolution of the Board it has been decided that the information on coal supply and demand in Canada is of sufficient public interest to warrant continuing annual publication in this new format.

All tonnages shown in this report are short tons of 2,000 pounds.




G. M. MacNabb,
Assistant Deputy Minister.

SUMMARY OF SUPPLY

SOURCE	1968	1969	1970	1971
Canada Bituminous	5,781,000	5,457,000	8,865,000	11,625,000
Canada Subbituminous	2,977,000	3,195,000	3,920,000	4,426,000
Canada Lignite	2,250,000	2,020,000	3,819,000	3,300,000
Total Canada Coal	11,008,000	10,672,000	16,604,000	19,351,000
Imported Bituminous	16,854,000	16,676,000	18,888,000	17,347,000
Imported Anthracite	469,000	510,000	465,000	484,000
Imported Briquettes	6,000	13,000	8,000	11,000
Total Imported Coal	17,329,000	17,199,000	19,361,000	17,842,000
Total Coal Supply	28,377,000	27,871,000	35,965,000	37,193,000

PRODUCTION BY PROVINCES

	1968	1969	1970	1971
Nova Scotia	3,132,000	2,621,000	2,122,000	1,965,000
New Brunswick	798,000	702,000	396,000	517,000
Saskatchewan	2,250,000	2,020,000	3,819,000	3,300,000
Alberta	3,925,000	4,426,000	6,784,000	8,932,000
British Columbia	903,000	903,000	3,483,000	4,637,000
Total Canada	11,008,000	10,672,000	16,604,000	19,351,000



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■ IMPORTS*

	1968	1969	1970	1971
Bituminous Coal	16,854,000	16,676,000	18,888,000	17,347,000
Anthracite Coal	469,000	510,000	465,000	484,000
Briquettes	6,000	13,000	8,000	11,000
● Total Imports	17,329,000	17,199,000	19,361,000	17,842,000

*Landed imports. All from the United States.

■ EXPORTS

	1968	1969	1970	1971
To Japan	1,273,000	1,156,000	4,123,000	7,408,000
To United States	172,000	216,000	150,000	11,000
Elsewhere	2,000	6,000	119,000	315,000
● Total Exports	1,447,000	1,378,000	4,392,000	7,734,000

■ COAL BALANCE IN 1971

□ Soft Coal*	Canadian	Imported	Total
Produced and Imported	19,351,000	17,347,000	36,698,000
Change in Stockpiles	+38,000	+931,000	+969,000
Available for Consumption	19,389,000	18,278,000	37,667,000
Reported Consumed	17,885,000	17,134,000	35,019,000
□ Anthracite			
Imported	—	484,000	484,000
Change in Stockpiles	—	-11,000	-11,000
Available for Consumption	—	473,000	473,000
Reported Consumed	—	381,000	381,000

*Includes bituminous, Subbituminous and Lignite

■ 15-YEAR COAL BALANCE

In Millions of short tons

Year	Canada Production	Imports		Total Available	Internal Consumption	Exports
		Anthracite	Bituminous			
1957	13.2	1.9	18.0	33.1	31.9	0.4
1958	11.7	1.5	11.8	25.0	25.8	0.3
1959	10.6	1.5	12.1	24.2	24.6	0.5
1960	11.0	1.2	11.2	23.4	22.5	0.9
1961	10.4	1.0	11.1	22.5	21.5	0.9
1962	10.3	0.9	11.5	22.7	22.2	0.9
1963	10.6	0.8	13.9	25.3	23.5	1.1
1964	11.3	0.6	14.1	26.0	24.6	1.3
1965	11.6	0.6	15.6	27.8	25.8	1.2
1966	11.4	0.6	15.7	27.7	24.9	1.2
1967	11.4	0.6	15.2	27.2	25.0	1.3
1968	11.0	0.5	16.8	28.3	27.0	1.4
1969	10.7	0.5	16.7	27.9	26.0	1.4
1970	16.6	0.5	18.9	36.0	28.3	4.4
1971	19.4	0.5	17.3	37.2	27.7	7.7

■ PERCENT CONSUMPTION BY YEARS

	Thermal Electric %	Metallurgy %	General Industry %	Space Heating %	* Misc. %	Exports %
1968	39.0	26.1	23.1	5.4	1.3	5.1
1969	43.4	25.5	19.8	4.8	1.5	5.0
1970	46.5	24.2	11.4	3.1	1.4	13.4
1971	48.2	20.3	6.8	2.1	0.8	21.8

*Railways, Ships Bunkers, used at collieries.

■ COAL IN STOCKPILES – 1971

	Stocks December 31 1970	Stocks December 31 1971	Change in Stocks
<hr/>			
□ 1. Canadian Coal at:			
Thermal Electric	690,000	632,000	- 58,000
Metallurgical	24,000	19,000	- 5,000
General Industry	81,000	58,000	- 23,000
Retail Dealers	18,000	15,000	- 3,000
Collieries	1,460,000	1,511,000	+ 51,000
Total	2,273,000	2,235,000	- 38,000
<hr/>			
□ 2. Imported Bituminous at:			
Thermal Electric	5,686,000	5,318,000	- 368,000
Metallurgical	2,756,000	2,317,000	- 439,000
General Industry	886,000	915,000	+ 29,000
Retail Dealers	83,000	36,000	- 47,000
Docks	386,000	280,000	- 106,000
Total	9,797,000	8,866,000	- 931,000
<hr/>			
□ 3. Imported Anthracite at:			
General Industry	118,000	132,000	+ 14,000
Retail Dealers	12,000	9,000	- 3,000
Docks	1,000	1,000	-
Total	131,000	142,000	+ 11,000

■ CONSUMPTION IN 1971, BY KINDS OF CONSUMER

□ Soft Coal*	Canadian	Imported	Total
Thermal Electric	7,970,000	9,094,000	17,064,000
Metallurgical	615,000	6,567,000	7,182,000
General Industry	850,000	1,199,000	2,049,000
Space Heating	569,000	125,000	694,000
Transportation	125,000	149,000	274,000
Collieries	22,000	—	22,000
Exports	7,734,000	—	7,734,000
Total Soft Coal	17,885,000	17,134,000	35,019,000
□ Anthracite			
General Industry	—	342,000	342,000
Space Heating	—	39,000	39,000
Total Anthracite	—	381,000	381,000
● Total Coal Consumed	17,885,000	17,515,000	35,400,000

*Includes bituminous, Subbituminous and Lignite

■ CONSUMPTION IN 1971, BY KINDS OF COAL

	Bituminous	Subbituminous	Lignite	Anthracite
Thermal Electric				
Canada Coal	1,056,000	4,056,000	2,858,000	—
Imported Coal	9,094,000	—	—	—
Metallurgical				
Canada Coal	615,000	—	—	—
Imported Coal	6,567,000	—	—	—
General Industry				
Canada Coal	616,000	—	234,000	—
Imported Coal	1,199,000	—	—	342,000
Space Heating				
Canada Coal	179,000	350,000	40,000	—
Imported Coal	125,000	—	—	39,000
Transportation				
Canada Coal	110,000	10,000	5,000	—
Imported Coal	149,000	—	—	—
At Collieries				
Canada Coal	20,000	—	2,000	—
Exports				
Canada Coal	7,734,000	—	—	—
● Total Coal Consumed	27,464,000	4,416,000	3,139,000	381,000

■ SUMMARY OF CONSUMPTION — 4 YEARS

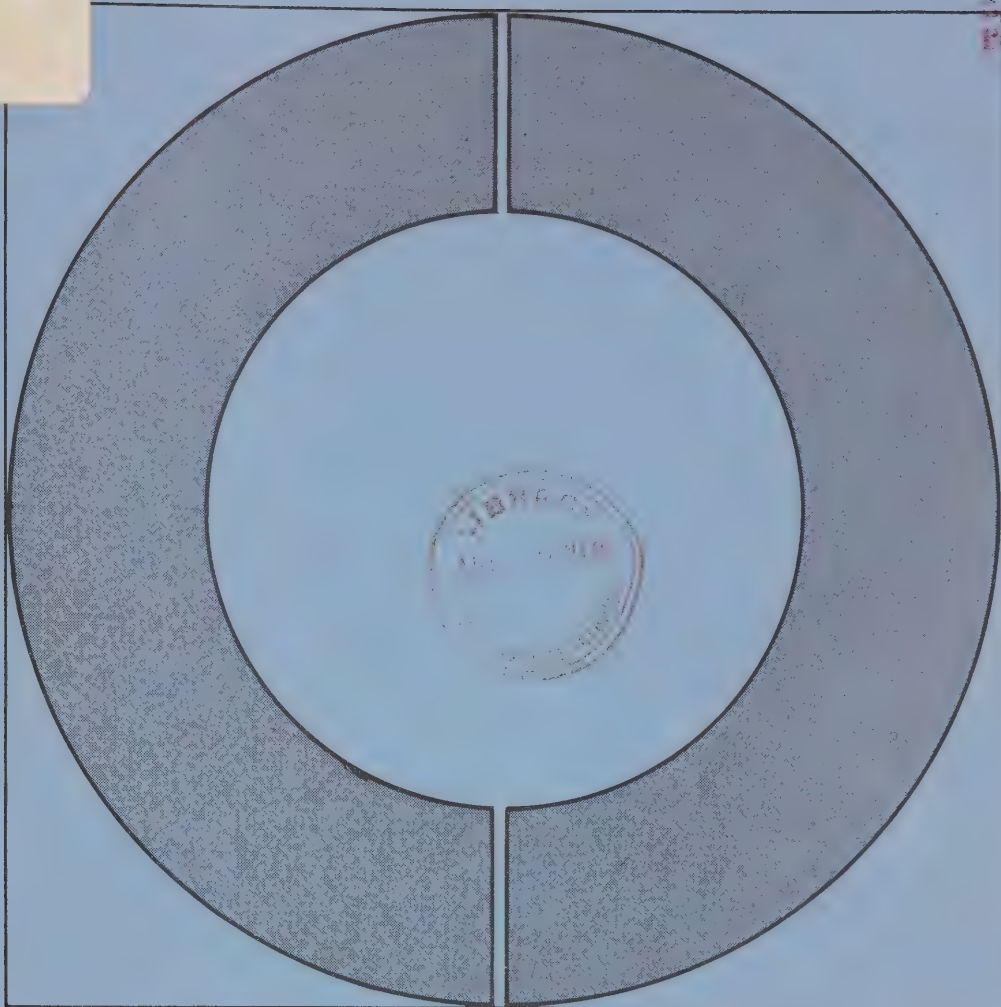
□ SOFT COAL*	1968	1969	1970	1971
Thermal Electric				
Canada Coal	5,688,000	5,497,000	7,125,000	7,970,000
Imported Coal	5,394,000	6,410,000	8,065,000	9,094,000
Total	11,082,000	11,907,000	15,190,000	17,064,000
Metallurgical				
Canada Coal	403,000	635,000	712,000	615,000
Imported Coal	7,007,000	6,347,000	7,210,000	6,567,000
Total	7,410,000	6,982,000	7,922,000	7,182,000
General Industry				
Canada Coal	2,577,000	2,105,000	1,369,000	850,000
Imported Coal	3,697,000	3,039,000	2,025,000	1,199,000
Total	6,274,000	5,144,000	3,394,000	2,049,000
Space Heating				
Canada Coal	953,000	851,000	708,000	569,000
Imported Coal	483,000	386,000	265,000	125,000
Total	1,436,000	1,237,000	973,000	694,000
Transportation				
Canada Coal	133,000	133,000	139,000	125,000
Imported Coal	179,000	228,000	250,000	149,000
Total	312,000	361,000	389,000	274,000
At Collieries				
Canada Coal	76,000	43,000	55,000	22,000
Exports				
Canada Coal	1,447,000	1,378,000	4,392,000	7,734,000
Total Soft Coal				
Canada Coal	11,277,000	10,642,000	14,500,000	17,885,000
Imported Coal	16,760,000	16,410,000	17,815,000	17,134,000
Total	28,037,000	27,052,000	32,315,000	35,019,000
□ ANTHRACITE COAL				
General Industry	286,000	298,000	324,000	342,000
Space Heating	97,000	69,000	53,000	39,000
Total	383,000	367,000	377,000	381,000
● TOTAL COAL CONSUMED	28,420,000	27,419,000	32,692,000	35,400,000

*Includes bituminous, subbituminous and Lignite.

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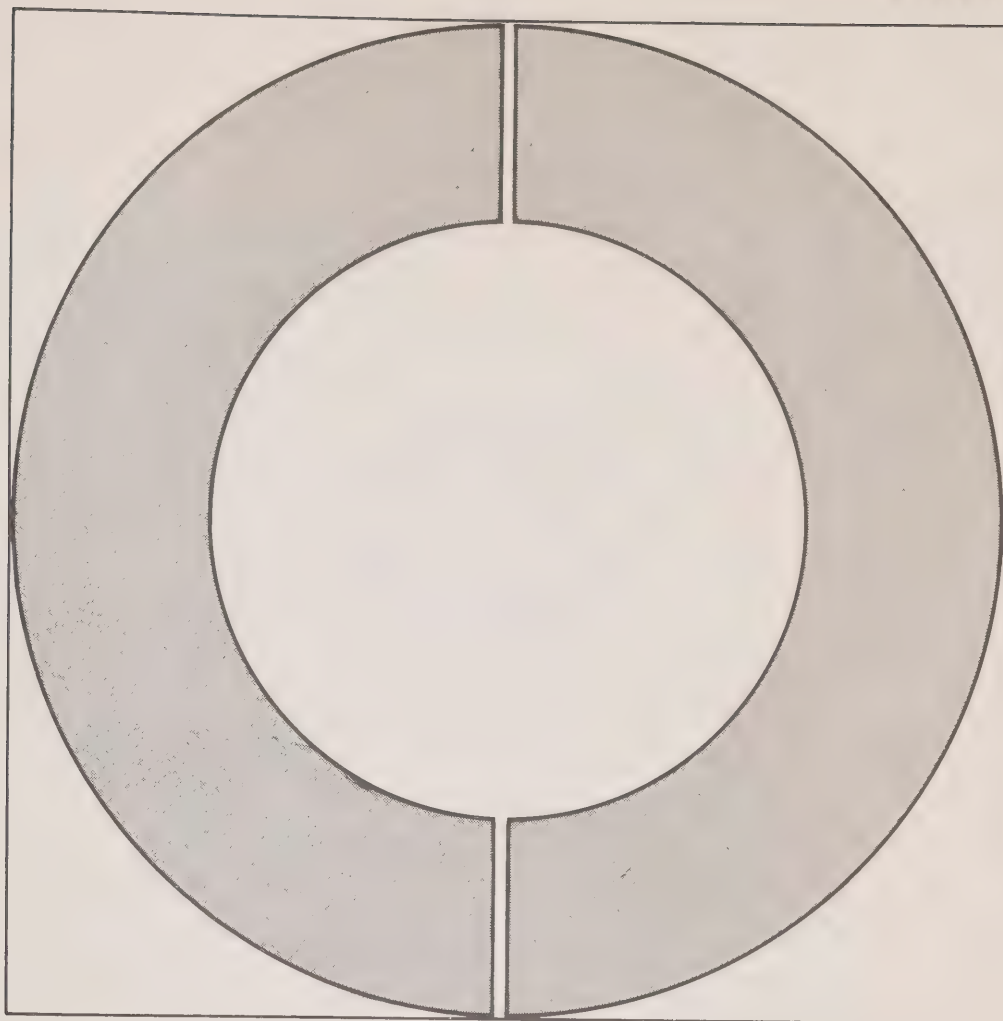
COAL IN CANADA SUPPLY & DEMAND 1973

PREPARED FOR THE
26th CANADIAN CONFERENCE
ON COAL



Energy, Mines and
Resources Canada

Énergie, Mines et
Ressources Canada



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FOREWORD

Canada's coal industry in 1973 bettered its previous record production output, an increase of almost 2 million short tons, from the 1972 total of 20.7 million to 22.6 million short tons. Most of the increase came in the mining of bituminous and lignite coal, bituminous production increased from 12.5 million to 13.6 million short tons and lignite from 3.3 million to 4.0 million short tons. The production of Canadian coal has more than doubled in the 5 years from 1969 to 1973 inclusively, from 10.7 million short tons to 22.6 million. British Columbia has made the largest gain from 0.9 million short tons in 1969 to 7.8 million in 1973, followed by Saskatchewan and Alberta which have more than doubled their production while the Maritimes output has continued to decline. Bituminous coal accounted for 60.3% of Canadian production, subbituminous for 21.9% and lignite 17.8% of the total of 22.6 million short tons in 1973.

In 1973 exports of coal rose from the 1972 rate of 9.4 million short tons to 11.3 million short tons. Japan was our largest buyer of coal receiving 11.1 million short tons while the U.S.A. received the remainder. During the last 5 years, Canada's coal exports increased from 1.4 million short tons in 1969 to 11.3 million in 1973. The exportation of Canadian coal was restricted almost exclusively to bituminous coal.

In 1973 landed imports, all from the U.S.A., decreased by almost 2 million short tons from 18.6 million in 1972 to 16.6 million in 1973 with the bulk going to Ontario. Of a total coal supply of 27.9 million

short tons in 1969, 17.2 million tons were imported. Five years later, with a total supply of 39.2 million short tons, 22.6 were produced in Canada while 16.6 were imported. Of the amount imported, 16.1 million short tons were bituminous.

In 1964 of the 25.9 million short tons of coal consumed, 24.2% was used for the generation of electricity; 22.7% in metallurgy; 35.2% in general industry; 13% in space heating and 4.9% in exports. In 1973, however, thermal electric generation accounted for 42.6%, metallurgical 21.9%, general industry 5.3%, space heating 1.0% and exports 29.2%. In the provinces, Ontario was the largest consumer with a total demand within Canada of 15.6 million short tons. Alberta was second with 5.1 million short tons and Saskatchewan was third with a consumption of 3.2 million short tons.

In the last 5 years Canadian coal has experienced a vast increase in demand in the Japanese market, giving a tremendous boost to western Canadian coal producers. This expansion is expected to continue and perhaps account for more of the coal used in eastern Canada. To compete economically in the world wide market, continuing research is required to promote scientific and technical improvements in transportation, production and marketing.

COAL CANADA
SUPPLY AND DEMAND

SUMMARY OF SUPPLY

(In Thousands of Short Tons)

SOURCE	1969	1970	1971	1972	1973
Canada Bituminous	5,457	8,865	10,706	12,521	13,599
Canada Subbituminous	3,195	3,920	4,426	4,905	4,940
Canada Lignite	2,020	3,819	3,300	3,283	4,028
TOTAL CANADA COAL	10,672	16,604	18,432	20,709	22,567
Imported Bituminous	16,676	18,888	17,347	18,112	16,117
Imported Anthracite	510	465	484	446	515
Imported Briquettes	13	8	11	11	7
TOTAL IMPORTED COAL	17,199	19,361	17,842	18,569	16,639
TOTAL COAL SUPPLY	27,871	35,965	36,274	39,278	39,206

IMPORTS*

(\$,000)

	1969	1970	1971	1972	1973
Bituminous Coal	16,676	18,888	17,347	18,112	16,117
Anthracite Coal	510	465	484	446	515
Briquettes	13	8	11	11	7
TOTAL IMPORTS	17,199	19,361	17,842	18,569	16,639

*Landed Imports all from the United States

EXPORTS

(\$,000)

	1969	1970	1971	1972	1973
To Japan	1,156	4,123	7,408	9,299	11,106
To United States	216	150	11	110	235
Elsewhere	6	119	315	12	--
TOTAL EXPORTS	1,378	4,392	7,734	9,421	11,341

PRODUCTION BY PROVINCES

	(,000)			
	1969	1970	1971	1972
				1973
Nova Scotia	2,621	2,122	1,965	1,425
New Brunswick	702	396	517	430
Saskatchewan	2,020	3,819	3,300	3,283
Alberta	4,426	6,784	8,013	9,024
British Columbia	903	3,483	4,637	6,547
TOTAL CANADA	10,672	16,604	18,432	20,709
				22,567

COAL BALANCE IN 1973*

	(,000)	
	CANADIAN	IMPORTED
		TOTAL
Produced and Imported	22,567	16,639
Change in Stockpiles	- 216	- 116
Available for Consumption	22,783	16,755
Reported Demand	22,471	16,421
		38,892

*Includes bituminous, subbituminous, lignite, anthracite, briquettes

COAL BALANCE BY PROVINCES - 1973

	Canada	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Unit: Thousands of Short Tons:			
								Man.	Sask.	Alta.	B.C.
<u>DEMAND</u>											
Total Demand within Canada	27,551	2	1	1,426	245	740	15,617	800	3,241	5,143	336
(For Exports)	11,341	--	--	--	--	--	--	--	6	4,034	7,301
Total Reported Consumed	38,892	2	1	1,426	245	740	15,617	800	3,247	9,177	7,637
Unaccounted for:	646	+ 2	+ 9	- 3	+ 3	+130	+ 310	- 34	+ 84	+ 120	+ 25
TOTAL DEMAND Internal & Exports	39,538	4	10	1,423	248	870	15,927	766	3,331	9,297	7,662
<u>SUPPLY</u>											
Production	22,567	--	--	1,176	394	--	--	--	4,028	9,196	7,773
Imports	16,639	3	--	109	--	751	15,762	11	2	--	1
Total	39,206	3	--	1,285	394	751	15,762	11	4,030	9,196	7,774
Net Transfer between Provinces	--	+ 1	+ 10	+ 11	-122	+ 95	+ 48	+807	- 653	- 218	+ 21
Inventory Change	- 332	--	--	- 127	+ 24	- 24	-117	+ 52	+ 46	- 319	+133
TOTAL SUPPLY	39,538	4	10	1,423	248	870	15,927	766	3,331	9,297	7,662

10 YEAR COAL BALANCE

In Millions of Short Tons

Year	Canada Production	Imports		Total Available	Internal Consumption	Exports
		Anthracite	Bituminous			
1964	11.2	0.6	14.1	25.9	24.6	1.3
1965	11.5	0.6	15.6	27.1	25.8	1.2
1966	11.2	0.6	15.7	25.2	24.9	1.2
1967	11.1	0.6	15.2	26.9	25.0	1.3
1968	11.0	0.5	16.8	28.3	27.0	1.4
1969	10.7	0.5	16.7	27.9	26.0	1.4
1970	16.6	0.5	18.9	36.0	28.3	4.4
1971	18.4	0.5	17.3	36.2	27.9	7.7
1972	20.7	0.5	18.1	39.3	26.7	9.4
1973	22.6	0.5	16.1	39.2	27.6	11.3

10 YEAR SUMMARY OF COAL DEMAND
(on a percentage basis)

Year	Tonnage (,000)	Thermal Electric %	Metallurgy %	General Industry %	Space Heating %	Exports %
1964	25,880	24.2	22.7	35.2	13.0	4.9
1965	27,007	28.5	21.8	34.5	10.7	4.5
1966	26,073	30.2	22.5	33.6	9.0	4.7
1967	26,385	34.5	22.2	31.0	7.2	5.1
1968	28,420	39.0	26.1	24.5	5.4	5.1
1969	27,419	43.4	25.5	21.3	4.8	5.0
1970	32,692	46.5	24.3	12.7	3.1	13.4
1971	35,670	48.3	20.1	7.8	2.1	21.7
1972	36,128	46.3	19.8	6.2	1.6	26.1
1973	38,892	42.6	21.9	5.3	1.0	29.2

COAL IN STOCKPILES
(,000)

	Stocks December 31 1972	Stocks December 31 1973	Change in Stocks
1. Canadian Coal at:			
Thermal Electric	673	726	- 53
Metallurgical	37	17	- 20
General Industry & Space Heating	75	69	- 6
Collieries	1,427	1,184	-243
TOTAL	2,212	1,996	-216
2. Imported Bituminous at:			
Thermal Electric	7,388	7,896	-508
Metallurgical	3,362	2,959	-403
General Industry & Space Heating	991	776	-215
TOTAL	11,741	11,631	-110
3. Imported Anthracite at:			
General Industry & Space Heating	182	176	- 6
GRAND TOTAL	14,135	13,803	-332

COAL DEMAND IN 1973, BY KINDS OF CONSUMERS

(,000)

Type of Consumers	Canadian Coal	Imported Coal	TOTAL	Per Cent
For Thermal Power Generation	9,309	7,262	16,571	42.6
For Metallurgical Uses	771	7,738	8,509	21.9
For Other Industries	691	1,379	2,070	5.3
For Space Heating	359	42	401	1.0
For Exports	<u>11,341</u>	<u>--</u>	<u>11,341</u>	<u>29.2</u>
TOTAL DEMAND	22,471	16,421	38,892	100.0

DEMAND IN 1973 BY KINDS OF COAL
(,000)

	Bituminous	Subbituminous	Lignite	Anthracite
Thermal Power Generation				
Canadian Coal	1,205	4,642	3,462	--
Imported Coal	7,262	--	--	--
Metallurgical				
Canadian Coal	771	--	--	--
Imported Coal	7,738	--	--	--
Other Industries				
Canadian Coal	302	5	384	--
Imported Coal	993	--	--	386
Space Heating				
Canadian Coal	110	228	21	--
Imported Coal	29	--	--	13
Exports				
Canadian Coal	11,335	--	6	--
TOTAL COAL DEMAND	29,745	4,875	3,873	399
Per Cent	76.5	12.5	10.0	1.0

SUMMARY OF DEMAND

SUMMARY OF DEMAND					
KINDS OF CONSUMERS	(\$,000)				
	1969	1970	1971	1972	1973
Thermal Electric					
Canadian Coal	5,497	7,125	7,970	8,355	9,309
Imported Coal	6,410	8,065	9,258	8,373	7,262
TOTAL	11,907	15,190	17,228	16,728	16,571
Metallurgical					
Canadian Coal	635	712	615	492	771
Imported Coal	6,347	7,210	6,567	6,666	7,738
TOTAL	6,982	7,922	7,182	7,158	8,509
General Industry					
Canadian Coal	2,281	1,563	1,102	746	691
Imported Coal	3,565	2,599	1,690	1,504	1,379
TOTAL	5,846	4,162	2,792	2,250	2,070
Space Heating					
Canadian Coal	851	708	570	473	359
Imported Coal	455	318	164	98	42
TOTAL	1,306	1,026	734	571	401
Exports					
Canadian Coal	1,378	4,392	7,734	9,421	11,341
TOTAL					
Canadian Coal	10,642	14,500	17,991	19,487	22,471
Imported Coal	16,777	18,192	17,679	16,641	16,421
TOTAL COAL DEMAND	27,419	32,692	35,670	36,128	38,892

ENERGY SOURCES BY PHYSICAL UNITS 1953 - 1973

Canadian Production (Net Tons)

	Bituminous	Domestic & Lignite	Total	Imported Coal & Coal Cokes & Briquettes Net Tons	Total All Coal & Coke Net Tons	Hydraulic Electric Power M.K.W.H.	Natural Gas Produced & Imported M.C.F.	Imported Crude & Petroleum Products Bbls.	Canadian Supply Products Bbls.	Total Crude & Imported Petroleum Products Bbls.
1953	10,656,566	5,244,107	15,900,673	23,757,861	39,658,534	64,243,242	128,216,210	115,126,696	81,501,265	196,627,961
1954	9,643,293	5,270,286	14,913,579	18,965,088	33,878,667	68,311,191	152,686,581	112,501,828	96,753,909	209,255,737
1955	9,609,148	5,209,732	14,818,880	20,230,442	35,049,322	75,277,997	196,599,417	122,555,586	130,308,663	252,664,249
1956	9,792,438	5,123,172	14,915,610	23,240,587	38,156,197	81,839,968	243,096,874	141,888,835	174,576,623	316,465,458
1957	8,630,820	4,558,335	13,189,155	20,203,952	33,393,107	83,573,220	323,642,069	144,439,003	184,828,508	329,267,511
1958	7,459,475	4,227,635	11,687,110	14,838,465	26,525,575	90,509,200	438,026,935	134,276,595	168,313,158	302,589,753
1959	6,719,174	3,907,548	10,626,722	14,643,322	25,270,044	97,039,830	480,182,965	151,789,260	190,447,100	342,236,360
1960	7,179,882	3,831,256	11,011,138	13,878,071	24,889,209	105,882,773	583,164,659	158,265,473	198,640,100	356,905,573
1961	6,743,750	3,653,954	10,397,704	12,605,177	23,002,881	103,919,241	738,438,337	160,125,201	234,687,525	394,812,726
1962	6,459,186	3,825,583	10,284,769	12,869,101	23,153,870	104,050,724	1,043,900,818	162,412,073	268,319,921	430,731,994
1963	6,987,732	3,587,962	10,575,694	13,603,213	26,631,340	103,831,866	1,211,333,437	178,976,498	287,405,108	466,381,606
1964	7,149,439	4,169,884	11,319,323	15,312,017	24,178,907	113,343,948	1,406,692,121	182,288,909	299,850,341	482,139,250
1965	6,963,247	4,625,369	11,588,616	17,173,232	28,761,848	117,063,328	1,459,619,069	200,905,218	341,612,092	542,517,310
1966	6,724,593	4,666,976	11,391,569	17,028,303	28,419,872	129,834,430	1,678,859,644	201,082,330	369,785,695	570,868,025
1967	6,720,799	4,674,955	11,395,754	16,491,994	27,887,748	132,747,303	1,830,091,232	238,204,571	404,643,343	642,847,914
1968	5,778,708	5,229,569	11,008,277	17,308,212	28,316,489	134,972,953	2,086,019,808	248,564,974	438,104,675	686,469,649
1969	5,456,190	5,215,689	10,671,879	17,634,370	28,306,249	149,246,787	2,325,791,006	263,786,504	477,625,094	741,411,598
1970	8,864,767	7,739,397	16,604,164	19,268,897	35,873,061	156,708,854	2,637,808,788	275,724,676	539,330,288	815,054,964
1971	10,706,282	7,725,917	18,432,199	18,790,956	37,223,155	160,984,485	2,841,913,758	299,733,720	578,344,104	878,077,824
1972	12,520,771	8,188,545	20,709,516	19,783,623	40,492,939	178,169,480	3,331,912,963	332,000,076	670,457,336	1,002,457,412
1973	13,599,348	8,968,001	22,567,349	16,883,622	39,450,971	191,868,153	3,552,732,626	370,377,566	716,464,152	1,086,841,718

Revised April 1974

ENERGY SOURCES BY ENERGY UNITS 1953 - 1973
BILLIONS OF B.T.U.

SOLID FUEL

Canadian Production

Conversion Factor	Bituminous	Domestic & Lignite	Total	Imported Coal, Coke & Briq.	Total All Coal & Coke	Hydraulic Electric Power	Natural Gas Produced & Imported	Imported Crude & Petroleum Products	Canadian Production	Total Petroleum Fuels	Grand Total
1953	287,727	86,029	373,756	641,462	1,015,218	219,210	134,627	667,735	472,707	1,140,442	2,509,497
1954	260,369	86,459	346,828	512,057	858,885	233,090	160,321	652,510	561,173	1,213,683	2,465,979
1955	259,447	85,466	344,913	546,222	891,135	256,863	206,429	709,663	755,790	1,465,453	2,819,880
1956	264,396	84,046	348,442	627,496	975,938	279,254	255,252	822,955	1,012,544	1,835,499	3,345,943
1957	233,032	74,779	307,811	545,507	853,318	284,485	339,824	837,746	1,072,005	1,909,751	3,387,378
1958	201,402	69,354	270,756	400,639	671,395	308,835	459,928	778,804	976,216	1,755,020	3,195,178
1959	181,418	64,103	245,521	395,370	640,891	331,118	504,192	880,378	1,104,593	1,984,971	3,461,172
1960	193,857	62,852	256,709	374,708	631,417	361,292	612,323	917,937	1,152,113	2,070,050	3,675,082
1961	182,081	59,943	242,024	340,340	582,364	354,592	775,360	928,726	1,361,188	2,289,914	4,002,230
1962	174,398	62,759	237,157	347,466	584,623	355,041	1,096,096	941,990	1,556,236	2,498,246	4,534,006
1963	188,669	58,861	247,530	367,298	614,828	354,294	1,271,900	1,038,064	1,666,949	2,705,013	4,946,035
1964	193,035	68,407	261,442	413,424	674,866	386,751	1,477,027	1,057,276	1,739,130	2,796,406	5,335,030
1965	188,008	75,879	263,887	463,677	727,564	399,442	1,532,600	1,165,250	1,981,350	3,146,600	5,806,206
1966	181,564	76,562	258,126	459,764	717,890	443,020	1,762,803	1,166,277	2,144,757	3,311,034	6,234,747
1967	181,461	76,693	258,154	445,284	703,438	452,959	1,921,596	1,381,586	2,346,931	3,728,517	6,806,510
1968	156,025	85,791	241,816	467,322	709,138	460,553	2,100,321	1,440,517	2,541,007	3,981,524	7,341,536
1969	147,317	85,563	232,880	476,128	709,008	509,258	2,442,081	1,529,962	2,770,225	4,300,187	7,960,534
1970	239,349	126,965	366,314	520,260	886,574	534,720	2,769,699	1,599,203	3,128,116	4,727,319	8,918,312
1971	289,070	126,744	415,814	507,356	923,170	547,310	2,984,009	1,738,456	3,354,596	5,092,852	9,549,341
1972	336,061	134,333	470,394	534,158	1,006,552	607,948	3,498,509	1,925,600	3,888,653	5,814,253	10,927,262
1973	367,182	147,120	514,302	455,858	970,160	654,691	3,730,369	2,148,190	4,155,492	6,303,682	11,658,902

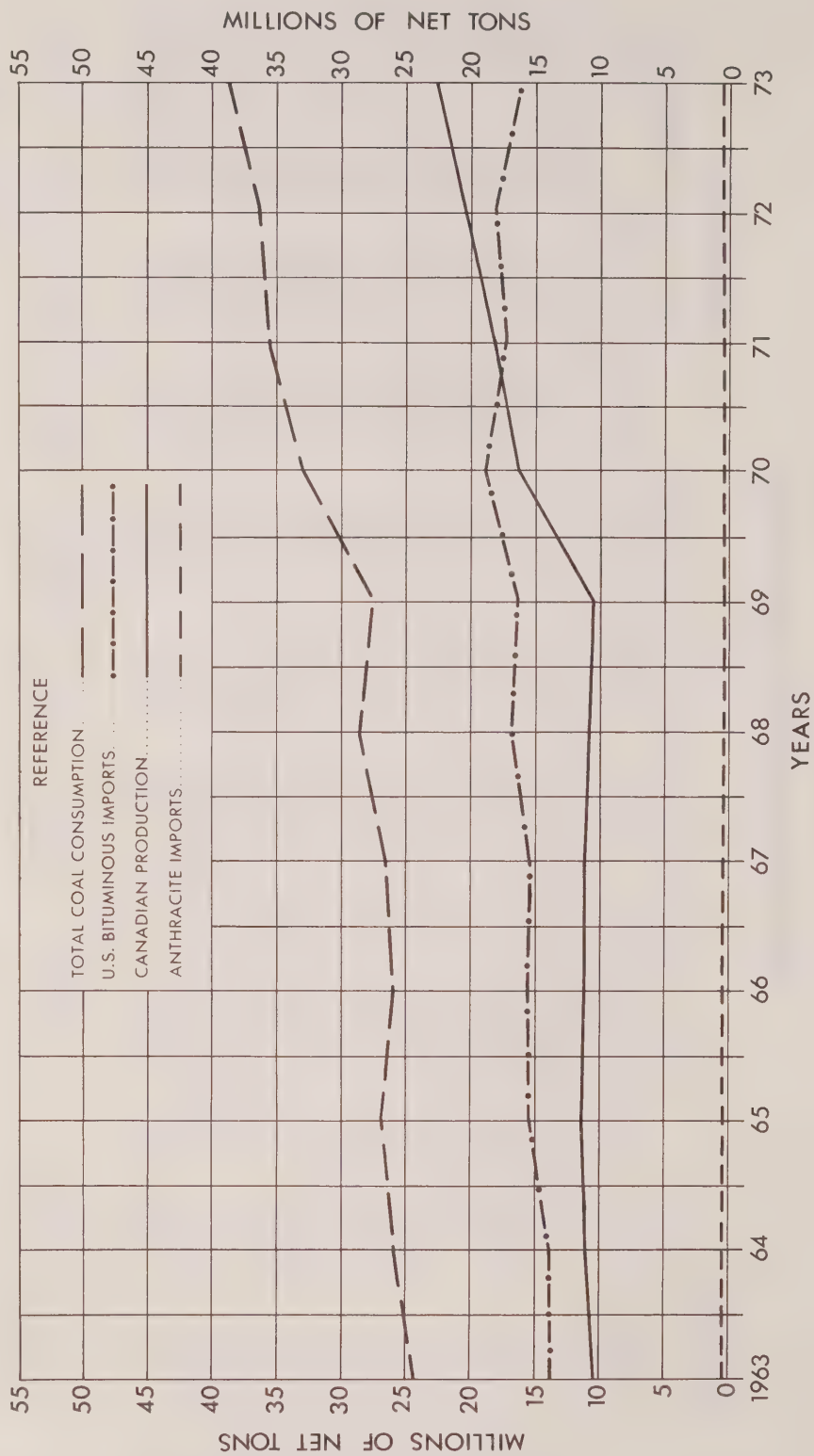
ENERGY SOURCES FROM 1953 TO 1973 BY PERCENTAGE OF TOTAL

SOLID FUEL

Canadian Production

	Bituminous	Domestic & Lignite	Total	Imported Coal, Coal Coke & Briq.	Total All Coal & Coke	Hydraulic Electric Power	Natural Gas Produced & Imported	Imported Crude & Petroleum Products	Canadian Production	PETROLEUM FUEL	
										Total Petroleum & Products	GRAND TOTAL M.M.M. B.T.U.
1953	11.5	3.4	14.9	25.6	40.5	8.7	5.4	26.6	18.8	45.4	100.0
1954	10.5	3.5	14.0	20.8	34.8	9.5	6.5	26.5	22.7	49.2	100.0
1955	9.2	3.0	12.2	19.4	31.6	9.1	7.3	25.2	26.8	52.0	100.0
1956	7.9	2.5	10.4	18.8	29.2	8.3	7.6	24.6	30.3	54.9	100.0
1957	6.9	2.2	9.1	16.1	25.2	8.4	10.0	24.7	31.7	56.4	100.0
1958	6.3	2.2	8.5	12.5	21.0	9.7	14.4	24.4	30.5	54.9	100.0
1959	5.2	1.9	7.1	11.4	18.5	9.5	14.6	25.5	31.9	57.4	100.0
1960	5.3	1.7	7.0	10.2	17.2	9.8	16.7	25.0	31.3	56.3	100.0
1961	4.5	1.5	6.0	8.5	14.5	8.9	19.4	23.2	34.0	57.2	100.0
1962	3.8	1.4	5.2	7.7	12.9	7.8	24.2	20.8	34.3	55.1	100.0
1963	3.8	1.2	5.0	7.4	12.4	7.2	25.7	21.0	33.7	54.7	100.0
1964	3.6	1.3	4.9	7.8	12.7	7.2	27.7	19.8	32.6	52.4	100.0
1965	3.2	1.3	4.5	8.0	12.5	6.9	26.4	20.1	34.1	54.2	100.0
1966	2.9	1.2	4.1	7.4	11.5	7.1	28.3	18.7	34.4	53.1	100.0
1967	2.7	1.1	3.8	6.5	10.3	6.7	28.2	20.3	34.5	54.8	100.0
1968	2.1	1.2	3.3	6.4	9.7	6.3	29.8	19.6	34.6	54.2	100.0
1969	1.6	1.1	2.9	6.0	8.9	6.4	30.7	19.2	34.8	54.0	100.0
1970	2.7	1.4	4.1	5.8	9.9	6.0	31.1	17.9	35.1	53.0	100.0
1971	3.0	1.3	4.3	5.4	9.7	5.8	31.2	18.2	35.1	53.3	100.0
1972	3.1	1.2	4.3	4.9	9.2	5.6	32.0	17.6	35.6	53.2	100.0
1973	3.1	1.3	4.4	3.9	8.3	5.6	32.0	18.4	35.7	54.1	100.0
											11,658,902

COAL TRENDS IN CANADA



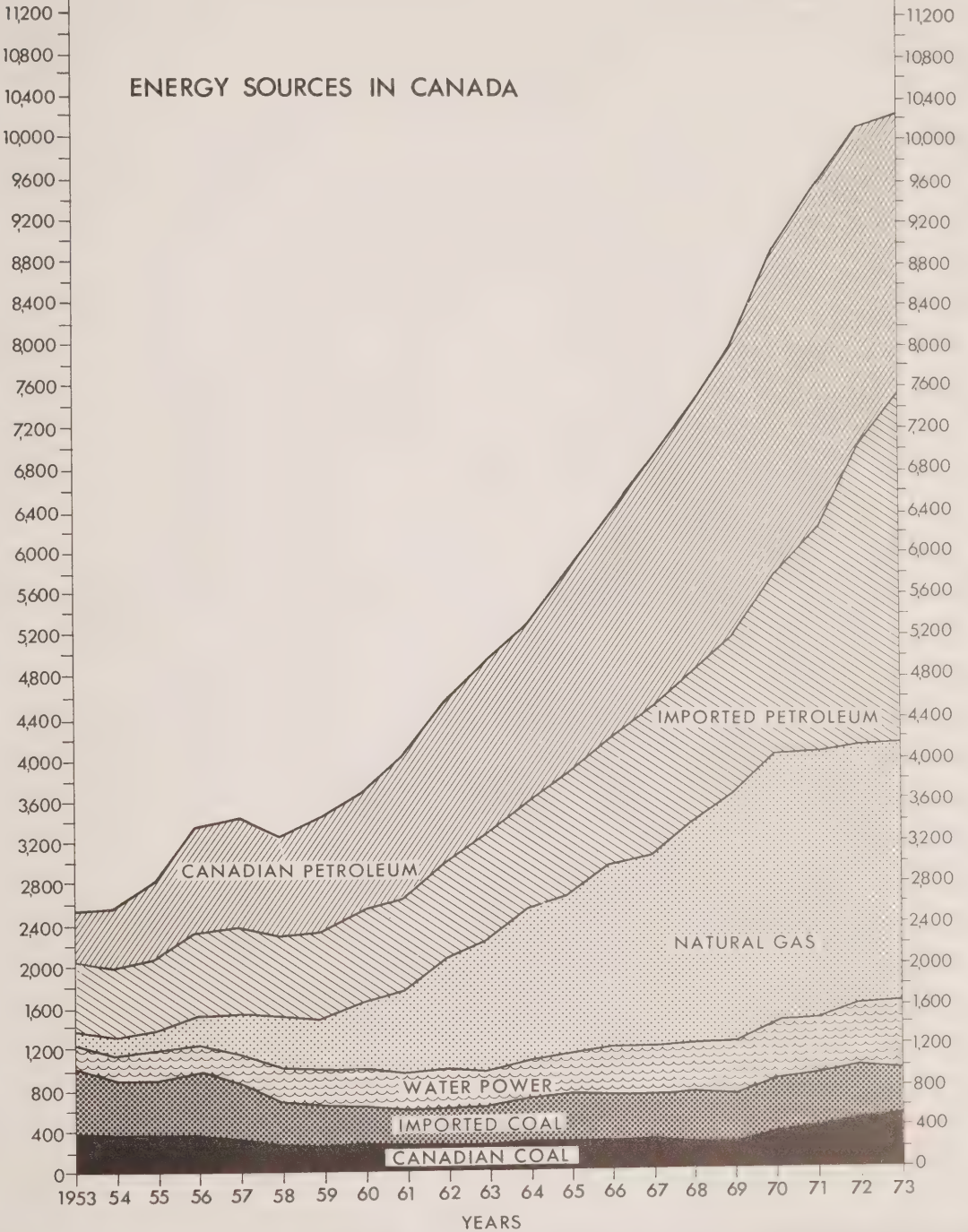
YEARS

1953 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73

ENERGY SOURCES IN CANADA

TRILLIONS OF B.T.U.

TRILLIONS OF B.T.U.



YEARS

RELATIVE IMPORTANCE OF ENERGY

CANADIAN PETROLEUM

IMPORTED PETROLEUM

NATURAL GAS

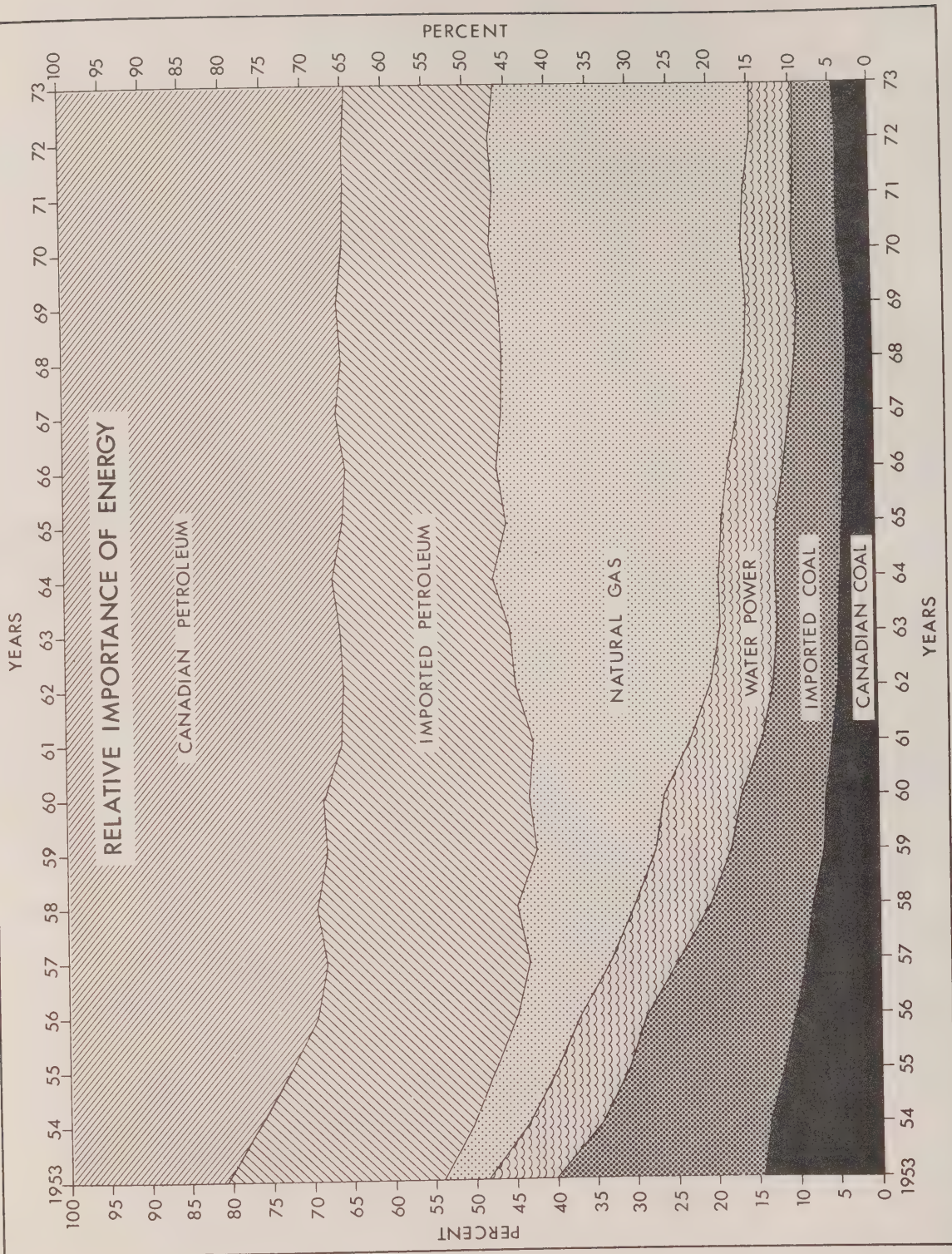
WATER POWER

IMPORTED COAL

CANADIAN COAL

PERCENT

YEARS



COAL

IN CANADA 1974

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COAL IN CANADA SUPPLY AND DEMAND 1974

PREPARED by the Energy Policy Sector
Department of Energy Mines & Resources

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COVER PHOTO:

View of Roberts Bank Terminal

FOREWORD

Canada's coal production totalled 23,261,000 short tons in 1974, up 694,000 tons from a record output of 22,567,000 short tons in 1973, the fifth consecutive increase since the industry produced 10,671,000 short tons in 1969 and substantially higher than the total output for any year dating back to the 14,913,000 short tons extracted by the Canadian coal industry in 1954.

The continuing turnaround featured higher production of bituminous coal at 13,824,000 short tons in 1974, up from 13,599,000 tons a year earlier, and a record for the past 20 years. Output reached 9,437,000 short tons for sub-bituminous coal and lignite compared to 8,968,000 short tons the year previous and only 5,270,000 short tons in 1954.

The increased production was accompanied by a modest rise in the percentage of total energy requirements supplied by coal in competition with hydro power and fossil fuels. Canadian bituminous, sub-bituminous and lignite accounted for 4.7 per cent of total requirements in 1974, up slightly from 4.1 per cent a year earlier but still well below the 14 per cent of all energy sources in 1954 and the subsequent decline caused by the rapidly increased demand for oil and gas over the period.

Work stoppages at United States coal mines curtailed imports of coal and coke at 14,230,000 short tons in 1974, down sharply from 16,883,000 short tons in 1973, such imports accounting for 3.4 per cent of total energy sources, the lowest for two decades but still a vital component of the power supplied in Ontario.

Exports were 11,600,000 short tons in the year under review, slightly ahead of the 11,341,000 short tons sold abroad in 1973, of which 10,982,000 short tons were shipped to Japan in the latest year. Bulk of the foreign sales and imports were for bituminous coals. Much of the recent revival of the Canadian coal industry is attributed to increased foreign demand, with exports up from 1,200,000 short tons since 1965 but prospects for the near term indicate growing rates of internal consumption.

Thermal power generation accounted for 43.7 per cent of coal demand in 1974, up from 42.6 per cent in 1973. Metallurgical uses took 21.2 per cent in the latest year, virtually unchanged from 21.9 per cent in 1973, while exports of all types of coal showed little change at 29.8 per cent against 29.2 per cent. Other industry and space heating requirements showed slight declines in the latest year.

Total coal supply for Canada in 1974 was 36,897,000 short tons of which 23,261,000 was indigenous production and 13,636,000 was imported. Comparable year earlier figures were 39,206,000, of which 22,567,000 was Canadian production and 16,639,000 was imported.

The outlook is for an expansion of domestic markets for Canadian coal based on improved transportation, production and marketing methods. Expansion of existing mines and development of new mines in Nova Scotia, Saskatchewan, Alberta and British Columbia as well as improvement in transportation facilities for handling western coal destined for Ontario markets will help to achieve the large growth forecast for Canada's industry.

TABLE 1

SUMMARY OF COAL SUPPLY
1970 – 1974
(Thousands of Short Tons)

	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>
<u>DOMESTIC</u>					
Bituminous	8,865	10,706	12,521	13,599	13,824
Subbituminous	3,920	4,426	4,905	4,940	5,595
Lignite	<u>3,819</u>	<u>3,300</u>	<u>3,283</u>	<u>4,028</u>	<u>3,842</u>
TOTAL	16,604	18,432	20,709	22,567	23,261
<u>IMPORTED</u>					
Bituminous	18,888	17,347	18,112	16,117	13,244
Anthracite	465	484	446	515	384
Briquettes	<u>8</u>	<u>11</u>	<u>11</u>	<u>7</u>	<u>8</u>
TOTAL	<u>19,361</u>	<u>17,842</u>	<u>18,569</u>	<u>16,639</u>	<u>13,636</u>
TOTAL COAL SUPPLY	35,965	36,274	39,278	39,206	36,897

TABLE 2

COAL PRODUCTION
1974
(Thousands of Short Tons)

	<u>UNDERGROUND</u>	<u>STRIP</u>	<u>TOTAL</u>
BITUMINOUS			
Nova Scotia	1,212	198	1,410
New Brunswick	—	415	415
Alberta	1,176	2,450	3,626
British Columbia	740	7,633	8,373
SUB BITUMINOUS			
Alberta	50	5,545	5,595
LIGNITE			
Saskatchewan	<u>—</u>	<u>3,842</u>	<u>3,842</u>
TOTAL PRODUCTION	3,178	20,083	23,261

TABLE 3

IMPORTS OF COAL INTO CANADA 1974
(Thousands of Short Tons)

	<u>ANTHRACITE</u>	<u>BITUMINOUS</u>	<u>BRIQUETTES</u>	<u>TOTAL</u>
Nova Scotia	—	194	—	194
New Brunswick	—	—	—	—
Quebec	306	249	—	555
Ontario	78	12,783	1	12,862
Manitoba	—	18	3	21
Saskatchewan	—	—	3	3
British Columbia	—	—	1	1
TOTAL	384	13,244	8	13,636

TABLE 4

DISPOSITION OF DOMESTIC COAL PRODUCTION
1974
(Thousands of Short Tons)

DESTINATION	ORIGINATING PROVINCES					CANADA
	NOVA SCOTIA	NEW BRUNSWICK	SASKATCHEWAN	ALBERTA	BRITISH COLUMBIA	
Railways in Canada	5	—	76	—	—	81
Newfoundland	1	—	—	—	—	1
Prince Edward Island	20	—	—	—	—	20
Nova Scotia	1,150	5	—	—	—	1,155
New Brunswick	26	358	—	—	—	384
Quebec	59	138	—	6	—	203
Ontario	1	—	45	247	133	426
Manitoba	—	—	393	84	—	477
Saskatchewan	—	—	3,316	217	—	3,533
Alberta	—	—	—	5,467	—	5,467
British Columbia	—	—	—	15	301	316
TOTAL CANADA	1,262	501	3,830	6,036	434	12,063
United States	—	3	11	261	—	275
Japan	—	—	—	2,937	8,045	10,982
Other	26	—	—	96	221	343
TOTAL SHIPMENTS	1,288	504	3,841	9,330	8,700	23,663

¹ Saleable Coal (raw coal, clean and middling sales).

TABLE 5

COAL DEMAND IN 1974, BY TYPES OF CONSUMERS
(Thousands of Short Tons)

DEMAND	CANADIAN COAL	IMPORTED COAL	TOTAL	PER CENT
DOMESTIC				
Thermal Power Generation	9,618	7,388	17,006	43.7
Metallurgical Uses	811	7,457	8,268	21.2
Other Industries	608	1,123	1,731	4.4
Space Heating	317	33	350	0.9
Exports	11,600	--	11,600	29.8
TOTAL DEMAND	22,954	16,001	38,955	100.0

TABLE 6

DEMAND BY TYPES OF COAL
1974
(Thousands of Short Tons)

DEMAND	BITUMINOUS	SUBBITUMINOUS	LIGNITE	ANTHRACITE
THERMAL POWER GENERATION				
Canadian Coal	1,157	5,214	3,247	--
Imported Coal	7,388	--	--	--
METALLURGICAL				
Canadian Coal	811	--	--	--
Imported Coal	7,457	--	--	--
OTHER INDUSTRIES				
Canadian Coal	188	73	347	--
Imported Coal	759	--	--	364
SPACE HEATING				
Canadian Coal	88	210	19	--
Imported Coal	21	--	--	12
EXPORTS				
Canadian Coal	11,589	--	11	--
TOTAL DEMAND	29,458	5,497	3,624	376
PER CENT	75.6	14.1	9.3	1.0

TABLE 7

COAL IN STOCKPILES
(Thousands of Short Tons)

	STOCKS DECEMBER 31 1973	STOCKS DECEMBER 31 1974	CHANGE IN STOCKS
CANADIAN COAL			
Thermal Electric Plants	726	933	+ 207
Steel Plants	17	180	+ 163
General Industry & Space Heating	69	52	- 17
Collieries	1,184	1,453	+ 269
TOTAL	1,996	2,618	+ 622
IMPORTED BITUMINOUS			
Thermal Electric Plants	7,896	7,100	- 796
Steel Plants	2,959	1,324	- 1,635
General Industry & Space Heating	776	769	- 7
TOTAL	11,631	9,193	- 2,438
IMPORTED ANTHRACITE			
General Industry & Space Heating	176	94	- 82
GRAND TOTAL	13,803	11,905	- 1,898

TABLE 8

SUMMARY OF COAL DEMAND
1970 — 1974
(In Thousands of Short Tons)

DEMAND	1970	1971	1972	1973	1974
THERMAL ELECTRIC					
Canadian Coal	7,125	7,970	8,355	9,309	9,618
Imported Coal	<u>8,065</u>	<u>9,258</u>	<u>8,373</u>	<u>7,262</u>	<u>7,388</u>
TOTAL	15,190	17,228	16,728	16,571	17,006
METALLURGICAL					
Canadian Coal	712	615	492	771	811
Imported Coal	<u>7,210</u>	<u>6,567</u>	<u>6,666</u>	<u>7,738</u>	<u>7,457</u>
TOTAL	7,922	7,182	7,158	8,509	8,268
GENERAL INDUSTRY					
Canadian Coal	1,563	1,102	746	691	608
Imported Coal	<u>2,599</u>	<u>1,690</u>	<u>1,504</u>	<u>1,379</u>	<u>1,123</u>
TOTAL	4,162	2,792	2,250	2,070	1,731
SPACE HEATING					
Canadian Coal	708	570	473	359	317
Imported Coal	<u>318</u>	<u>164</u>	<u>98</u>	<u>42</u>	<u>33</u>
TOTAL	1,026	734	571	401	350
EXPORTS					
Canadian Coal	4,392	7,734	9,421	11,341	11,600
TOTAL					
Canadian Coal	14,500	17,991	19,487	22,471	22,954
Imported Coal	<u>18,192</u>	<u>17,679</u>	<u>16,641</u>	<u>16,421</u>	<u>16,001</u>
TOTAL COAL DEMAND	32,692	35,670	36,128	38,892	38,955

TABLE 9

SUMMARY OF COAL DEMAND

1965 — 1974

(On a Percentage Basis)

YEAR	TONNAGE (,000 SHORT TONS)	ELECTRIC POWER INDUSTRY	STEEL INDUSTRY	GENERAL INDUSTRY	SPACE HEATING	EXPORTS
		%	%	%	%	%
1965	27,007	28.5	21.8	34.5	10.7	4.5
1966	26,073	30.2	22.5	33.6	9.0	4.7
1967	26,385	34.5	22.2	31.0	7.2	5.1
1968	28,420	39.0	26.1	24.5	5.4	5.1
1969	27,419	43.4	25.5	21.3	4.8	5.0
1970	32,692	46.5	24.3	12.7	3.1	13.4
1971	35,670	48.3	20.1	7.8	2.1	21.7
1972	36,128	46.3	19.8	6.2	1.6	26.1
1973	38,892	42.6	21.9	5.3	1.0	29.2
1974	38,955	43.7	21.2	4.4	0.9	29.8

TABLE 10

SUMMARY OF COAL SUPPLY-DEMAND

1965 — 1974

(Millions of Short Tons)

YEAR	CANADA PRODUCTION	IMPORTS		TOTAL AVAILABLE	DOMESTIC	
		ANTHRACITE	BITUMINOUS		CONSUMPTION	EXPORTS
1965	11.5	0.6	15.6	27.7	25.8	1.2
1966	11.2	0.6	15.7	27.5	24.9	1.2
1967	11.1	0.6	15.2	26.9	25.0	1.3
1968	11.0	0.5	16.8	28.3	27.0	1.4
1969	10.7	0.5	16.7	27.9	26.0	1.4
1970	16.6	0.5	18.9	36.0	28.3	4.4
1971	18.4	0.5	17.3	36.2	27.9	7.7
1972	20.7	0.5	18.1	39.3	26.7	9.4
1973	22.6	0.5	16.1	39.2	27.6	11.3
1974	23.3	0.4	13.2	36.9	27.4	11.6

TABLE 11

ENERGY SOURCES BY PHYSICAL UNITS 1954 — 1974

	SUB-BITUMINOUS & LIGNITE		TOTAL DOMESTIC (,000 ST)	IMPORTED COAL & COKE (,000 ST)	TOTAL ALL COAL & COKE (,000 ST)	HYDRO- ELECTRIC POWER M.M.K.W.H.	NATURAL GAS PRODUCED & IMPORTED M.M.C.F.		IMPORTED CRUDE & PETROLEUM PRODUCTS M. BBLs	DOMESTIC CRUDE OIL SUPPLY M. BBLs	TOTAL CRUDE & IMPORTED PETROLEUM PRODUCTS M. BBLs
	BITUMINOUS (,000 ST)	BITUMINOUS & LIGNITE (,000 ST)									
1954	9,643	5,270	14,913	18,965	33,878	68,311	152,686		112,501	96,754	209,255
1955	9,609	5,209	14,818	20,231	35,049	75,277	196,599		122,355	130,309	252,644
1956	9,792	5,123	14,915	23,241	38,156	81,839	243,096		141,889	174,576	316,465
1957	8,631	4,558	13,189	20,204	33,393	83,373	323,642		144,439	184,828	329,267
1958	7,459	4,228	11,687	14,838	26,525	90,509	438,026		134,276	168,313	302,589
1959	6,719	3,907	10,626	14,644	25,270	97,039	480,182		151,789	190,447	342,236
1960	7,180	3,831	11,011	13,878	24,889	105,882	583,164		158,265	198,640	356,905
1961	6,743	3,654	10,397	12,605	23,002	103,919	738,438		160,125	234,687	394,812
1962	6,459	3,825	10,284	12,869	23,153	104,050	1,043,900		162,412	268,319	430,731
1963	6,987	3,588	10,575	13,603	24,178	103,831	1,211,333		178,976	287,405	466,381
1964	7,149	4,170	11,319	15,312	26,631	113,343	1,406,692		182,289	299,850	482,139
1965	6,963	4,625	11,588	17,173	28,761	117,063	1,459,619		200,905	341,612	542,517
1966	6,724	4,667	11,391	17,028	28,419	129,834	1,678,859		201,082	369,786	570,868
1967	6,720	4,675	11,395	16,492	27,887	132,747	1,830,091		238,204	404,643	642,847
1968	5,779	5,229	11,008	17,308	28,316	134,972	2,086,019		248,365	438,104	686,469
1969	5,456	5,215	10,671	17,635	28,306	149,246	2,325,791		263,786	477,625	741,411
1970	8,865	7,739	16,604	19,269	35,873	156,708	2,637,808		275,724	539,330	815,054
1971	10,706	7,726	18,432	18,791	37,223	160,497	2,841,913		299,733	578,344	878,077
1972	12,521	8,188	20,709	19,783	40,492	178,117	3,331,912		332,000	670,457	1,002,457
1973	13,599	8,968	22,567	16,883	39,450	193,060	3,581,473		370,377	839,164	1,209,541
1974	13,824	9,437	23,261	14,230	37,491	210,170	3,509,228		319,745	710,100	1,029,845

ENERGY SOURCES BY ENERGY UNITS 1954 - 1974
BILLIONS OF B.T.U.

			SUB- BITUMINOUS & LIGNITE	TOTAL DOMESTIC	IMPORTED COAL AND COKE	TOTAL ALL COAL & COKE	HYDRO- ELECTRIC POWER	NATURAL GAS PRODUCED & IMPORTED	IMPORTED CRUDE & PETROLEUM PRODUCTS	DOMESTIC CRUDE OIL SUPPLY	TOTAL CRUDE & IMPORTED PETROLEUM PRODUCTS	GRAND TOTAL
BITUMINOUS	Conversion Factor .027	.016405			.027		.00341219	.00105	.0058	.0058		
1954	260,361	86,454	346,815		512,055	858,870	233,090	160,321	652,506	561,173	1,213,679	2,465,960
1955	259,443	85,454	344,897		546,237	891,134	256,859	206,429	709,659	755,792	1,465,451	2,819,873
1956	264,384	84,043	348,427		627,507	975,934	279,250	255,251	822,956	1,012,541	1,835,497	3,345,932
1957	233,037	74,774	307,811		545,508	853,319	284,485	339,824	837,746	1,072,002	1,909,748	3,387,376
1958	201,393	69,360	270,753		400,626	671,379	308,834	459,927	778,801	976,215	1,755,016	3,195,156
1959	181,413	64,094	245,507		395,388	640,895	331,116	504,191	880,376	1,104,593	1,984,969	3,461,171
1960	193,860	62,948	256,708		374,706	631,414	361,290	612,322	917,937	1,152,112	2,070,049	3,675,075
1961	182,061	59,944	242,005		340,335	582,340	354,591	775,360	928,725	1,361,185	2,289,910	4,002,201
1962	174,393	62,749	237,142		347,463	584,605	355,038	1,096,005	941,990	1,556,250	2,498,240	4,533,888
1963	188,649	58,861	247,510		367,281	614,791	354,291	1,271,900	1,038,061	1,666,949	2,705,010	4,945,992
1964	193,023	68,409	261,432		413,424	674,856	386,748	1,477,027	1,057,276	1,739,130	2,796,406	5,335,037
1965	188,001	75,873	263,874		463,671	727,545	399,441	1,532,600	1,165,249	1,981,350	3,146,599	5,806,185
1966	181,548	76,562	258,110		459,756	717,866	443,018	1,762,802	1,166,276	2,144,759	3,311,035	6,234,721
1967	181,440	76,693	258,133		445,154	703,287	452,958	1,921,596	1,381,583	2,346,929	3,728,512	6,806,353
1968	156,033	85,782	241,815		467,316	709,131	460,550	2,190,320	1,440,517	2,541,003	3,981,520	7,341,521
1969	147,312	85,552	232,864		476,145	709,009	509,256	2,442,081	1,529,959	2,770,225	4,300,184	7,960,530
1970	239,355	126,958	306,313		520,263	886,576	534,717	2,769,699	1,599,199	3,128,114	4,727,313	8,918,305
1971	289,062	126,745	415,807		507,357	923,164	547,646	2,984,009	1,738,451	3,354,395	5,092,846	9,547,665
1972	338,067	134,324	472,391		534,141	1,006,532	607,769	3,498,508	1,925,600	3,888,651	5,814,251	10,927,060
1973	367,173	147,120	514,293		455,841	970,134	658,757	3,760,547	2,148,187	4,867,151	7,015,338	12,404,776
1974	373,248	154,814	528,062		384,210	912,272	717,140	3,684,689	1,854,521	4,118,580	5,973,101	11,287,202

ENERGY SOURCES FROM 1954 TO 1974 BY PERCENTAGE OF TOTAL

	CANADIAN PRODUCTION										GRAND TOTAL	
	SUB-BITUMINOUS & LIGNITE		IMPORTED COAL AND COKE		TOTAL ALL COAL & COKE		HYDRO-ELECTRIC POWER		NATURAL GAS PRODUCED & IMPORTED		TOTAL CRUDE & IMPORTED PETROLEUM PRODUCTS	
	BITUMINOUS	BITUMINOUS	COAL	COKE	COAL	COKE	POWER	POWER	PRODUCED	IMPORTED	CRUDE OIL	%
												M.M.M. B.T.U.
1954	10.5	3.5	14.0	20.8	34.8		9.5		6.5		22.7	100.0
1955	9.2	3.0	12.2	19.4	31.6		9.1		7.3		26.8	100.0
1956	7.9	2.5	10.4	18.8	29.2		8.3		7.6		30.3	100.0
1957	6.9	2.2	9.1	16.1	25.2		8.4		10.0		31.7	100.0
1958	6.3	2.2	8.5	12.5	21.0		9.7		14.4		31.5	100.0
1959	5.2	1.9	7.1	11.4	18.5		9.5		14.6		31.9	100.0
1960	5.3	1.7	7.0	10.2	17.2		9.8		16.7		31.3	100.0
1961	4.5	1.5	6.0	8.5	14.5		8.9		19.4		34.0	100.0
1962	3.8	1.4	5.2	7.7	12.9		7.8		24.2		34.3	100.0
1963	3.8	1.2	5.0	7.4	12.4		7.2		25.7		33.7	100.0
1964	3.6	1.3	4.9	7.8	12.7		7.2		27.7		32.6	100.0
1965	3.2	1.3	4.5	8.0	12.5		6.9		26.4		34.1	100.0
1966	2.9	1.2	4.1	7.4	11.5		7.1		28.3		34.4	100.0
1967	2.7	1.1	3.8	6.5	10.3		6.7		28.2		34.5	100.0
1968	2.1	1.2	3.3	6.4	9.7		6.3		29.8		34.6	100.0
1969	1.8	1.1	2.9	6.0	8.9		6.4		30.7		34.8	100.0
1970	2.7	1.4	4.1	5.8	9.9		6.0		31.1		35.1	100.0
1971	3.0	1.3	4.3	5.4	9.7		5.8		31.2		35.6	100.0
1972	3.1	1.2	4.3	4.9	9.2		5.6		32.0		35.2	100.0
1973	2.9	1.2	4.1	3.7	7.8		5.3		30.3		36.5	100.0
1974	3.3	1.4	4.7	3.4	8.1		6.4		32.6		52.9	100.0

COAL TRENDS IN CANADA

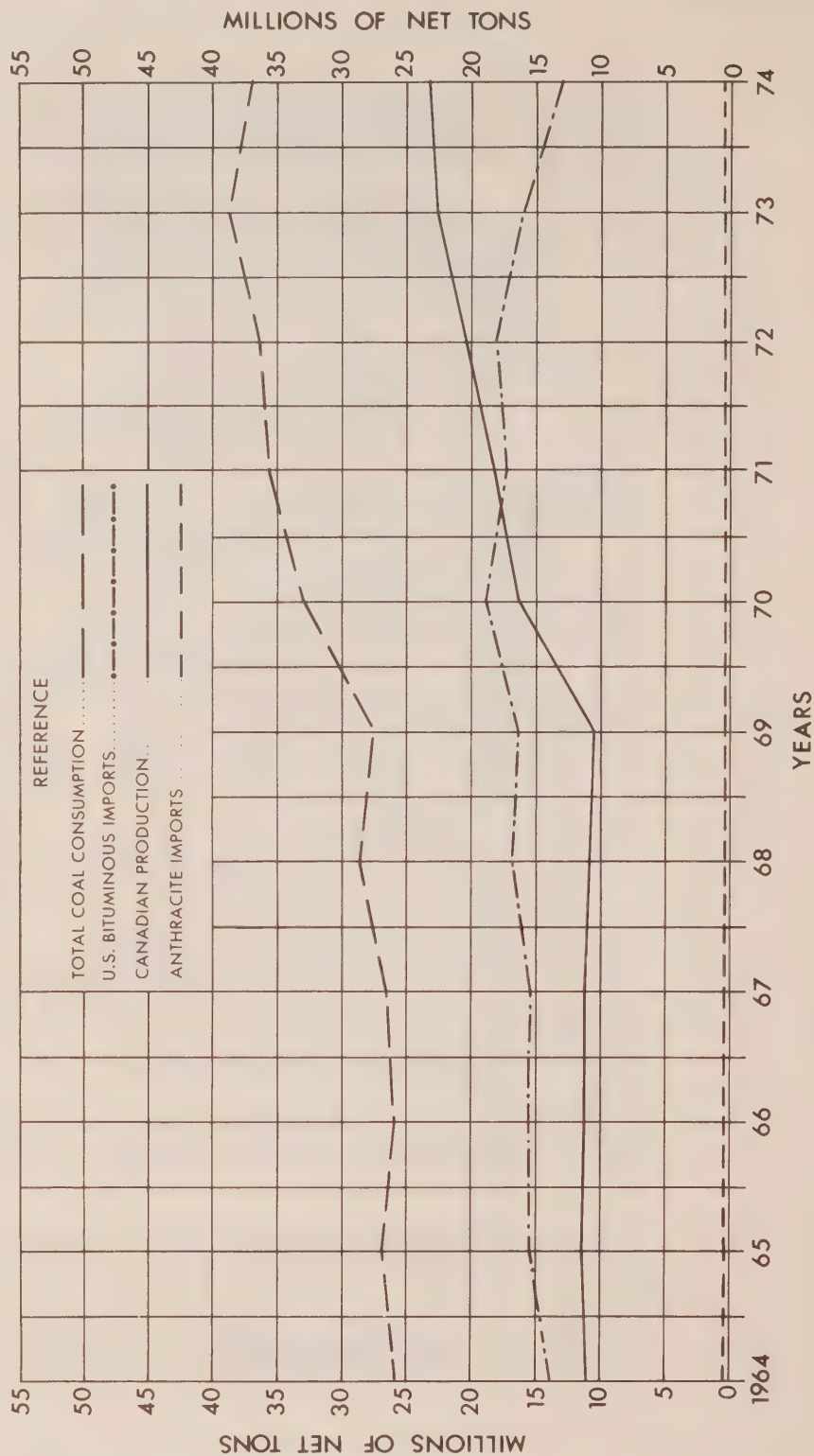


Figure 1

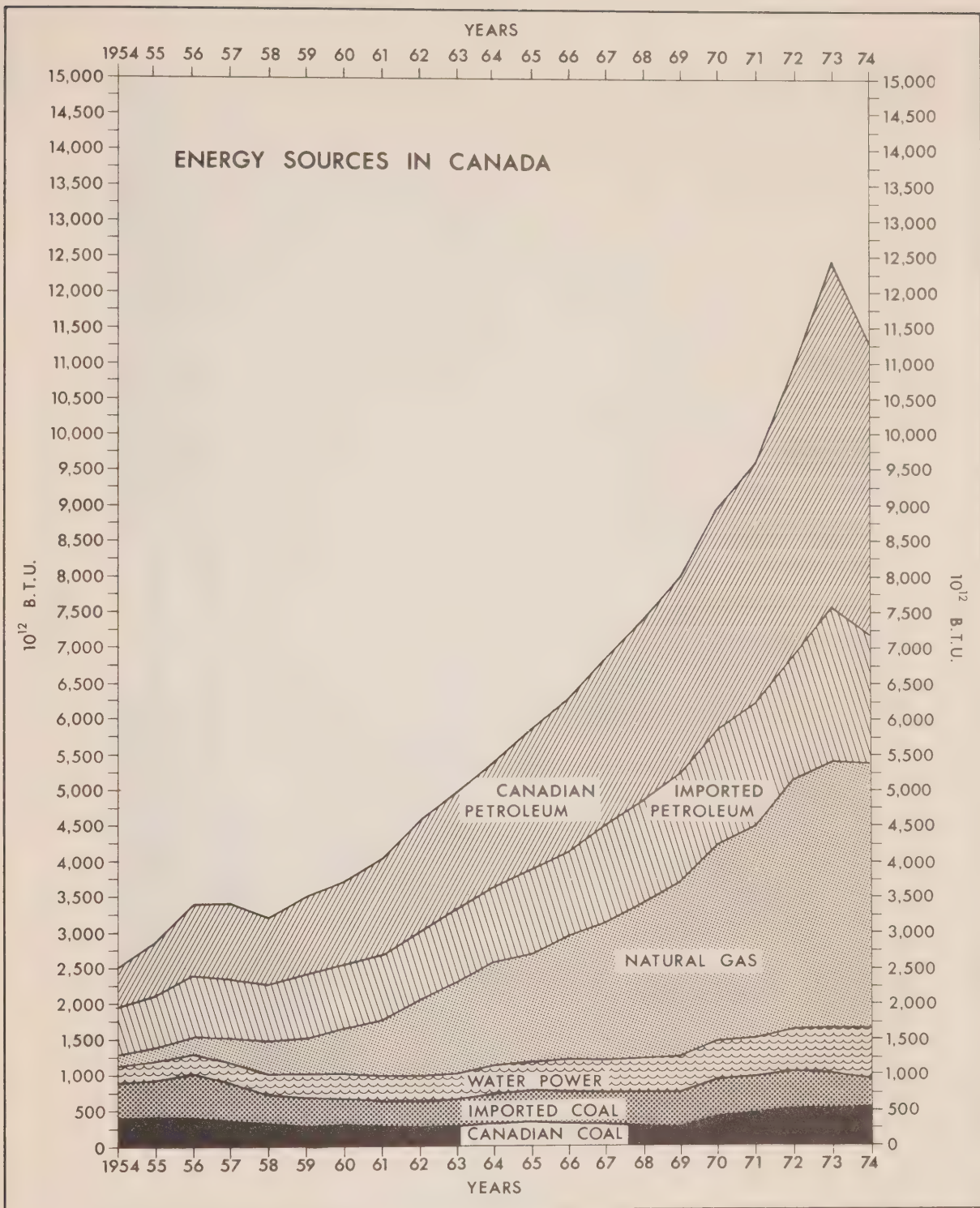


Figure 2

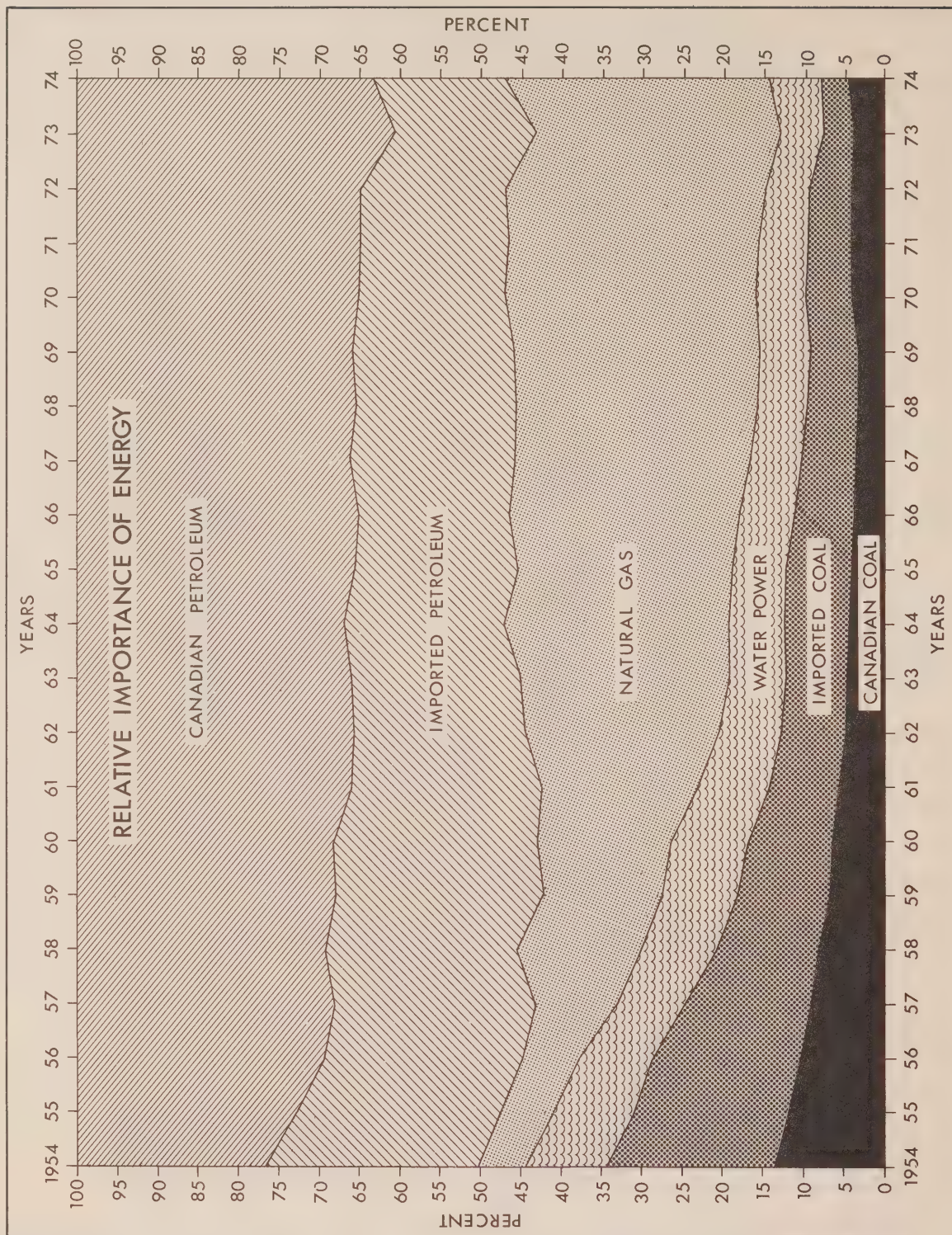


Figure 3



Energy, Mines and
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COAL in Canada 1975



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COAL IN CANADA SUPPLY AND DEMAND 1975

PREPARED by the Energy Policy Sector
Department of Energy Mines & Resources

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FOREWORD

Canadian production of all types of coal totalled 27,881,000 short tons in 1975 valued at \$576 million at the mines. In terms of tonnage, bituminous coal accounted for 62 per cent, sub-bituminous 24 per cent and lignite 14 per cent. Of the total production, 87 per cent or 24,317,000 tons were mined by surface methods, with the remainder from underground. Alberta continued to remain Canada's leading province in terms of tonnage, however, in terms of the BTU content of the coals produced, British Columbia is the largest producer.

In the field of coal trade in Canada, 12,600,000 tons, valued at \$541 million was exported with the principal quantity going to Japan. This represents 45 per cent of total Canadian production. In 1975 other destinations included the United Kingdom, France, West Germany and Denmark. It is estimated that 95 per cent of the exports were metallurgical coal and the remainder were thermal coal for electricity generation. In 1975 imports reached 17,438,000 tons valued at \$671 million, up sharply from the previous year. Most of the imported coal from West Virginia and Pennsylvania was shipped to Ontario.

In 1975 coal demand in Canada reached a record level of 40 million tons of which about 44 per cent was for use in thermal power generation, 31 per cent for export and 20 per cent for the Canadian steel industry. As of December 31, 1975, 14,631,000 tons of coal were stockpiled in Canada, an increase from the previous year when stockpiles were partially depleted.

In relation to other energy sources, domestically produced bituminous, sub-bituminous, and lignite, plus imported coal comprised 10.1 per cent of the total energy supply in Canada during the year representing a significant contribution to the energy balance.

Canada's coal industry is entering a period of expansion based on an increased demand both domestically and internationally. The principal uses for coal are expected in thermal power generation and making coke for the steel industry. However there appears to be a trend toward coal use by general industry, particularly in eastern Canada. In the future exports, while continuing to increase, will represent a smaller percentage of the domestic output.

Table 1

SUMMARY OF COAL SUPPLY BY TYPE AND VALUES 1971 — 1975

1) DOMESTIC	1971		1972		1973		1974		1975	
	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)	Tons (000)	(\$000)
Bituminous	10,706	108,268	12,521	133,394	13,599	159,973	13,824	273,634	17,401	543,400
Sub-bituminous	4,426	7,082	4,905	10,654	4,940	11,258	5,595	20,875	6,568	23,500
Lignite	3,300	6,377	3,283	6,552	4,028	8,500	3,842	8,317	3,912	8,900
TOTAL	18,432	121,727	20,709	150,600	22,567	179,731	23,261	302,826	27,881	575,800(P)
2) IMPORTED										
Bituminous & Anthracite Briquettes	17,842	219,100	18,569	273,500	16,639	289,700	13,636	354,600	17,438	670,923
TOTAL COAL SUPPLY	36,274	340,827	39,278	424,100	39,206	469,431	36,897	657,426	45,319	1,246,723

¹ F.O.B. Mines² Value at U.S. ports of exit

(P) Preliminary

Table 2

COAL PRODUCTION 1975 (Thousands of Short Tons)

	Surface	Underground	Total
BITUMINOUS			
Nova Scotia	93	1,733	1,826
New Brunswick	461	—	461
Alberta	3,660	864	4,524
British Columbia	9,669	921	10,590
SUB-TOTAL	13,883	3,518	17,401
SUB-BITUMINOUS			
Alberta	6,522	46	6,568
LIGNITE			
Saskatchewan	3,912	—	3,912
TOTAL PRODUCTION	24,317	3,564	27,881

Table 3

IMPORTS OF COAL INTO CANADA 1975

(Thousands of Short Tons)

	Anthracite	Bituminous	Briquettes	Total
Nova Scotia	—	114	—	114
New Brunswick	—	—	—	—
Quebec	365	345	—	710
Ontario	56	16,538	12	16,606
Manitoba	1	1	2	4
Saskatchewan	—	—	2	2
British Columbia	—	—	2	2
TOTAL	422	16,998	18	17,438

Table 4

DISPOSITION OF DOMESTIC COAL PRODUCTION¹
1975

(Thousands of Short Tons)

DESTINATION	ORIGINATING PROVINCES					Canada
	Nova Scotia	New Brunswick	Saskatchewan	Alberta	British Columbia	
Railways in Canada	—	—	70	—	—	70
Newfoundland	1	—	—	—	—	1
Prince Edward Island	13	—	—	—	—	13
Nova Scotia	1,133	5	—	121	—	1,259
New Brunswick	24	280	—	—	—	304
Quebec	81	156	—	2	—	239
Ontario	159	—	44	323	451	977
Manitoba	—	—	538	67	30	635
Saskatchewan	—	—	3,255	748	—	4,003
Alberta	—	—	—	5,905	—	5,905
British Columbia	—	—	—	17	329	346
TOTAL CANADA	1,411	441	3,907	7,183	810	13,752
United States	—	1	5	64	3	73
Japan	—	—	—	3,347	8,257	11,604
Other	377	—	—	40	506	923
TOTAL SHIPMENTS	1,788	442	3,912	10,634	9,576	26,352

¹ Saleable Coal (raw coal, clean and middling sales).

COAL DEMAND IN 1975, BY TYPES OF CONSUMERS

(Thousands of Short Tons)

DEMAND	Canadian coal	Imported coal	Total	Per cent
DOMESTIC				
Thermal Power Generation	10,894	7,336	18,230	44.8
Metallurgical Uses	1,044	6,996	8,040	19.8
Other Industries	671	891	1,562	3.8
Space Heating	256	35	291	0.7
Exports	12,600	—	12,600	30.9
TOTAL DEMAND	25,465	15,258	40,723	100.0

Table 6

DEMAND BY TYPES OF COAL 1975

(Thousands of Short Tons)

DEMAND	Bituminous	Sub-bituminous	Lignite	Anthracite
THERMAL POWER GENERATION				
Canadian Coal	1,383	6,040	3,471	—
Imported Coal	7,336	—	—	—
METALLURGICAL				
Canadian Coal	1,044	—	—	—
Imported Coal	6,996	—	—	—
OTHER INDUSTRIES				
Canadian Coal	254	7	410	—
Imported Coal	571	—	—	320
SPACE HEATING				
Canadian Coal	90	164	2	—
Imported Coal	22	—	—	13
EXPORTS				
Canadian Coal	12,595	—	5	—
TOTAL DEMAND	30,291	6,211	3,888	333
PER CENT	74.4	15.3	9.5	0.8

Table 7

COAL IN STOCKPILES
(Thousands of Short Tons)

	Stocks December 31 1974	Stocks December 31 1975	Change in stocks
CANADIAN COAL			
Thermal Electric Plants	933	1,333	+ 400
Steel Plants	180	445	+ 265
General Industry & Space Heating	52	61	+ 9
Collieries	1,453	1,156	- 297
TOTAL	2,168	2,995	+ 377
IMPORTED BITUMINOUS			
Thermal Electric Plants	7,100	8,273	+1,173
Steel Plants	1,324	2,391	+1,067
General Industry & Space Heating	769	802	+ 33
TOTAL	9,193	11,466	+2,273
IMPORTED ANTHRACITE			
General Industry & Space Heating	94	170	+ 76
GRAND TOTAL	11,905	14,631	+2,726

Table 8

EXPORT DEMAND FOR CANADIAN COAL

	1974		1975	
COUNTRY	ST (000)	\$ (000)*	ST (000)	\$ (000)*
Japan	10,982	290,134	11,604	515,102
United States	275	9,450	73	2,682
Denmark	75	1,507	150	3,346
United Kingdom	44	1,738	375	11,115
France	61	2,177	295	6,142
Other	163	4,482	103	2,964
TOTAL	11,600	309,488	12,600	541,351

* F.O.B. port of exit.

SUMMARY OF COAL DEMAND
1971 — 1975

(Thousands of Short Tons)

DEMAND	1971	1972	1973	1974	1975
THERMAL ELECTRIC					
Canadian Coal	7,970	8,355	9,309	9,618	10,894
Imported Coal	9,258	8,373	7,262	7,388	7,336
TOTAL	17,228	16,728	16,571	17,006	18,230
METALLURGICAL					
Canadian Coal	615	492	771	811	1,044
Imported Coal	6,567	6,666	7,738	7,457	6,996
TOTAL	7,182	7,158	8,509	8,268	8,040
GENERAL INDUSTRY					
Canadian Coal	1,102	746	691	608	671
Imported Coal	1,690	1,504	1,379	1,123	891
TOTAL	2,792	2,250	2,070	1,731	1,562
SPACE HEATING					
Canadian Coal	570	473	359	317	256
Imported Coal	164	98	42	33	35
TOTAL	734	571	401	350	291
EXPORTS					
Canadian Coal	7,734	9,421	11,341	11,600	12,600
TOTAL					
Canadian Coal Canadian Coal	17,991	19,487	22,471	22,954	25,465
Imported Coal	17,679	16,641	16,421	16,001	15,258
TOTAL COAL DEMAND	35,670	36,128	38,892	38,955	40,723

Table 10

SUMMARY OF COAL DEMAND
1966 — 1975

(On a Percentage Basis)

Year	Tonnage (,000 Short Tons)	Electric power Industry	Steel Industry	General Industry	Space Heating	Exports
		%	%	%	%	%
1966	26,073	30.2	22.5	33.6	9.0	4.7
1967	26,385	34.5	22.2	31.0	7.2	5.1
1968	28,420	39.0	26.1	24.5	5.4	5.1
1969	27,419	43.4	25.5	21.3	4.8	5.0
1970	32,692	46.5	24.3	12.7	3.1	13.4
1971	35,670	48.3	20.1	7.8	2.1	21.7
1972	36,128	46.3	19.8	6.2	1.6	26.1
1973	38,892	42.6	21.9	5.3	1.0	29.2
1974	38,955	43.7	21.2	4.4	0.9	29.8
1975	40,723	44.8	19.8	3.8	0.7	30.9

Table 11

SUMMARY OF COAL SUPPLY-DEMAND
1966 — 1975

(Millions of short tons)

CANADA									
PRODUCTION					IMPORTS		Total Available	Domestic Consumption	Exports
YEARS	Bituminous	Sub- Bituminous	Lignite	Total	Anthracite	Bituminous			
1966	6.5	2.6	2.1	11.2	0.6	15.7	27.5	24.9	1.2
1967	6.5	2.6	2.0	11.1	0.6	15.2	26.9	25.0	1.3
1968	5.8	3.0	2.2	11.0	0.5	16.8	28.3	27.0	1.4
1969	5.5	3.2	2.0	10.7	0.5	16.7	27.9	26.0	1.4
1970	8.9	3.9	3.8	16.6	0.5	18.9	36.0	28.3	4.4
1971	10.7	4.4	3.3	18.4	0.5	17.3	36.2	27.9	7.7
1972	12.5	4.9	3.3	20.7	0.5	18.1	39.3	26.7	9.4
1973	13.6	5.0	4.0	22.6	0.5	16.1	39.2	27.6	11.3
1974	13.8	5.6	3.9	23.3	0.4	13.2	36.9	27.4	11.6
1975	17.4	6.6	3.9	27.9	0.4	17.0	45.3	28.1	12.6

Table 12

SUMMARY OF COAL SUPPLY AND DEMAND

Equivalent Bituminous Coal
(Thousands of Short Tons)

Supply	1971	1972	1973	1974	1975
Canada Production	15,310	17,433	18,915	19,477	23,730
IMPORTED	17,842	18,558	16,632	13,628	17,420
TOTAL SUPPLY	33,152	35,991	35,547	33,105	41,150
Demand					
Electric Power Industry	14,448	13,825	13,297	13,642	14,475
Steel Industry	7,182	7,158	8,509	8,268	8,040
General Industry & Space Heating	3,215	2,529	2,209	1,806	1,594
EXPORTS	7,734	9,421	11,341	11,600	12,600
TOTAL DEMAND	32,579	32,933	35,356	35,316	36,709

Conversion factor Bituminous 25.8 millions BTU
 Sub-Bituminous 17.0 millions BTU
 Lignite 13.2 millions BTU
 Anthracite 25.8 millions BTU

Table 13

ENERGY SOURCES BY PHYSICAL UNITS 1955 — 1975

	Bituminous (,000 ST)	Sub- Bituminous & Lignite (,000 ST)	Total Domestic (,000 ST)	Imported Coal & Coke (,000 ST)	Total All Coal & Coke (,000 ST)	Hydro- Electric Power M.M.K.W.H.	Natural Gas Produced & Imported M.M.C.F.	Imported Crude & Petroleum Products M. BBLs	Domestic Crude Oil Supply M. BBLs	Total Crude & Imported Petroleum Products M. BBLs
1955	9,609	5,209	14,818	20,231	35,049	75,277	196,599	122,355	130,309	252,644
1956	9,792	5,123	14,915	23,241	38,156	81,839	243,096	141,889	174,576	316,465
1957	8,631	4,558	13,189	20,204	33,393	83,373	323,642	144,439	184,828	329,267
1958	7,459	4,228	11,687	14,838	26,525	90,509	438,026	134,276	168,313	302,589
1959	6,719	3,907	10,626	14,644	25,270	97,039	480,182	151,789	190,447	342,236
1960	7,180	3,831	11,011	13,878	24,889	105,882	583,164	158,265	198,640	356,905
1961	6,743	3,654	10,397	12,605	23,002	103,919	738,438	160,125	234,687	394,812
1962	6,459	3,825	10,284	12,869	23,153	104,050	1,043,900	162,412	268,319	430,731
1963	6,987	3,588	10,575	13,603	24,178	103,831	1,211,333	178,976	287,405	466,381
1964	7,149	4,170	11,319	15,312	26,631	113,343	1,406,692	182,289	299,850	482,139
1965	6,963	4,625	11,588	17,173	28,761	117,063	1,459,619	200,905	341,612	542,517
1966	6,724	4,667	11,391	17,028	28,419	129,834	1,678,859	201,082	369,786	570,868
1967	6,720	4,675	11,395	16,492	27,887	132,747	1,830,091	238,204	404,643	642,847
1968	5,779	5,229	11,008	17,308	28,316	134,972	2,086,019	248,365	438,104	686,469
1969	5,456	5,215	10,671	17,635	28,306	149,246	2,325,791	263,786	477,625	741,411
1970	8,865	7,739	16,604	19,269	35,873	156,708	2,637,808	275,724	539,330	815,054
1971	10,706	7,726	18,432	18,791	37,223	160,497	2,841,913	299,733	578,344	878,077
1972	12,521	8,188	20,709	19,783	40,492	178,117	3,331,912	332,000	670,457	1,002,457
1973	13,599	8,968	22,567	16,883	39,450	193,060	3,581,473	370,377	772,256	1,142,633
1974	13,824	9,437	23,261	14,230	37,491	210,170	3,509,228	329,745	710,100	1,039,845
1975	17,401	10,480	27,881	17,436	45,317	202,404	3,498,965	316,181	633,440	949,621

Table 14

ENERGY SOURCES BY ENERGY UNITS 1955 — 1975
BILLIONS OF B.T.U.

	Bituminous	Sub- Bituminous & Lignite	Total Domestic	Imported Coal and Coke	Total All Coal & Coke	Hydro- Electric Power	Natural Gas Produced & Imported	Imported Crude & Petroleum Products	Domestic Crude Oil Supply	Total Crude & Imported Petroleum Products	Grand Total
Conversion Factor .027	.016405		.027		.00341219		.00105	.0058	.0058	.0058	
1955	259,443	85,454	344,897	546,237	891,134	256,859	206,429	709,659	755,792	1,465,451	2,819,873
1956	264,384	84,043	348,427	627,507	975,934	279,250	255,251	822,956	1,012,541	1,835,497	3,345,932
1957	233,037	74,774	307,811	545,508	853,319	284,485	339,824	837,746	1,072,002	1,909,748	3,387,376
1958	201,393	69,360	270,753	400,626	671,379	308,834	459,927	778,801	976,215	1,755,016	3,195,156
1959	181,413	64,094	245,507	395,388	640,895	331,116	504,191	880,376	1,104,593	1,984,969	3,461,171
1960	193,860	62,848	256,708	374,706	631,414	361,290	612,322	917,937	1,152,112	2,070,049	3,675,075
1961	182,061	59,944	242,005	340,335	582,340	354,591	775,360	928,725	1,361,185	2,289,910	4,002,201
1962	174,393	62,749	237,142	347,463	584,605	355,038	1,096,005	941,990	1,556,250	2,498,240	4,533,888
1963	188,649	58,861	247,510	367,281	614,791	354,291	1,271,900	1,038,061	1,666,949	2,705,010	4,945,992
1964	193,023	68,409	261,432	413,424	674,856	386,748	1,477,027	1,057,276	1,739,130	2,796,406	5,335,037
1965	188,001	75,873	263,874	463,671	727,545	399,441	1,532,600	1,165,249	1,981,350	3,146,599	5,806,185
1966	181,548	76,562	258,110	459,756	717,866	443,018	1,762,802	1,166,276	2,144,759	3,311,035	6,234,721
1967	181,440	76,693	258,133	445,154	703,287	452,958	1,921,596	1,381,583	2,346,929	3,728,512	6,806,353
1968	156,033	85,782	241,815	467,316	709,131	460,550	2,190,320	1,440,517	2,541,003	3,981,520	7,341,521
1969	147,312	85,552	232,864	476,145	709,009	509,256	2,442,081	1,529,959	2,770,225	4,300,184	7,960,530
1970	239,355	126,958	306,313	520,263	886,576	534,717	2,769,699	1,599,199	3,128,114	4,727,313	8,918,305
1971	289,062	126,745	415,807	507,357	923,164	547,646	2,984,009	1,738,451	3,354,395	5,092,846	9,547,665
1972	338,067	134,324	472,391	534,141	1,006,532	607,769	3,498,508	1,925,600	3,888,651	5,814,251	10,927,060
1973	367,173	147,120	514,293	455,841	970,134	658,757	3,760,547	2,148,187	4,479,085	6,627,272	12,016,710
1974	373,248	154,814	528,062	384,210	912,272	717,140	3,684,689	1,912,521	4,118,580	6,031,101	11,345,202
1975	469,827	171,924	641,751	470,772	1,112,523	700,859	3,673,913	1,833,850	3,673,952	5,507,802	10,995,097

Table 15

ENERGY SOURCES FROM 1955 TO 1975 BY PERCENTAGE OF TOTAL

CANADIAN PRODUCTION										Grand Total	
Bituminous	Sub- Bituminous & Lignite	Total domestic	Imported coal and coke	Total all Coal & Coke	Hydro- electric Power	Natural Gas Produced & Imported	Imported Crude & Petroleum Products	Domestic Crude Oil Supply	Total Crude & Imported Petroleum Products	%	M.M.M. B.T.U.
1954	10.5	3.5	14.0	20.8	34.8	9.5	6.5	26.5	49.2	100.0	2,465,979
1955	9.2	3.0	12.2	19.4	31.6	9.1	7.3	25.2	52.0	100.0	2,819,880
1956	7.9	2.5	10.4	18.8	29.2	8.3	7.6	24.6	54.9	100.0	3,345,943
1957	6.9	2.2	9.1	16.1	25.2	8.4	10.0	24.7	56.4	100.0	3,387,378
1958	6.3	2.2	8.5	12.5	21.0	9.7	14.4	24.4	54.9	100.0	3,195,178
1959	5.2	1.9	7.1	11.4	18.5	9.5	14.6	25.5	57.4	100.0	3,461,172
1960	5.3	1.7	7.0	10.2	17.2	9.8	16.7	25.0	56.3	100.0	3,675,082
1961	4.5	1.5	6.0	8.5	14.5	8.9	19.4	23.2	57.2	100.0	4,002,230
1962	3.8	1.4	5.2	7.7	12.9	7.8	24.2	20.8	54.3	100.0	4,534,006
1963	3.8	1.2	5.0	7.4	12.4	7.2	25.7	21.0	54.7	100.0	4,946,035
1964	3.6	1.3	4.9	7.8	12.7	7.2	27.7	19.8	52.4	100.0	5,335,050
1965	3.2	1.3	4.5	8.0	12.5	6.9	26.4	20.1	54.2	100.0	5,806,206
1966	2.9	1.2	4.1	7.4	11.5	7.1	28.3	18.7	53.1	100.0	6,234,747
1967	2.7	1.1	3.8	6.5	10.3	6.7	28.2	20.3	54.8	100.0	6,806,510
1968	2.1	1.2	3.3	6.4	9.7	6.3	29.8	19.6	54.2	100.0	7,341,536
1969	1.8	1.1	2.9	6.0	8.9	6.4	30.7	19.2	54.0	100.0	7,960,534
1970	2.7	1.4	4.1	5.8	9.9	6.0	31.1	17.9	53.0	100.0	8,918,312
1971	3.0	1.3	4.3	5.4	9.7	5.8	31.2	18.2	53.3	100.0	9,547,665
1972	3.1	1.2	4.3	4.9	9.2	5.6	32.0	17.6	53.2	100.0	10,927,060
1973	3.1	1.2	4.3	3.8	8.1	5.5	31.3	17.9	55.1	100.0	12,016,710
1974	3.3	1.4	4.7	3.4	8.1	6.3	32.5	16.8	53.1	100.0	11,345,202
1975	4.3	1.5	5.8	4.3	10.1	6.4	33.4	16.7	50.1	100.0	10,995,095

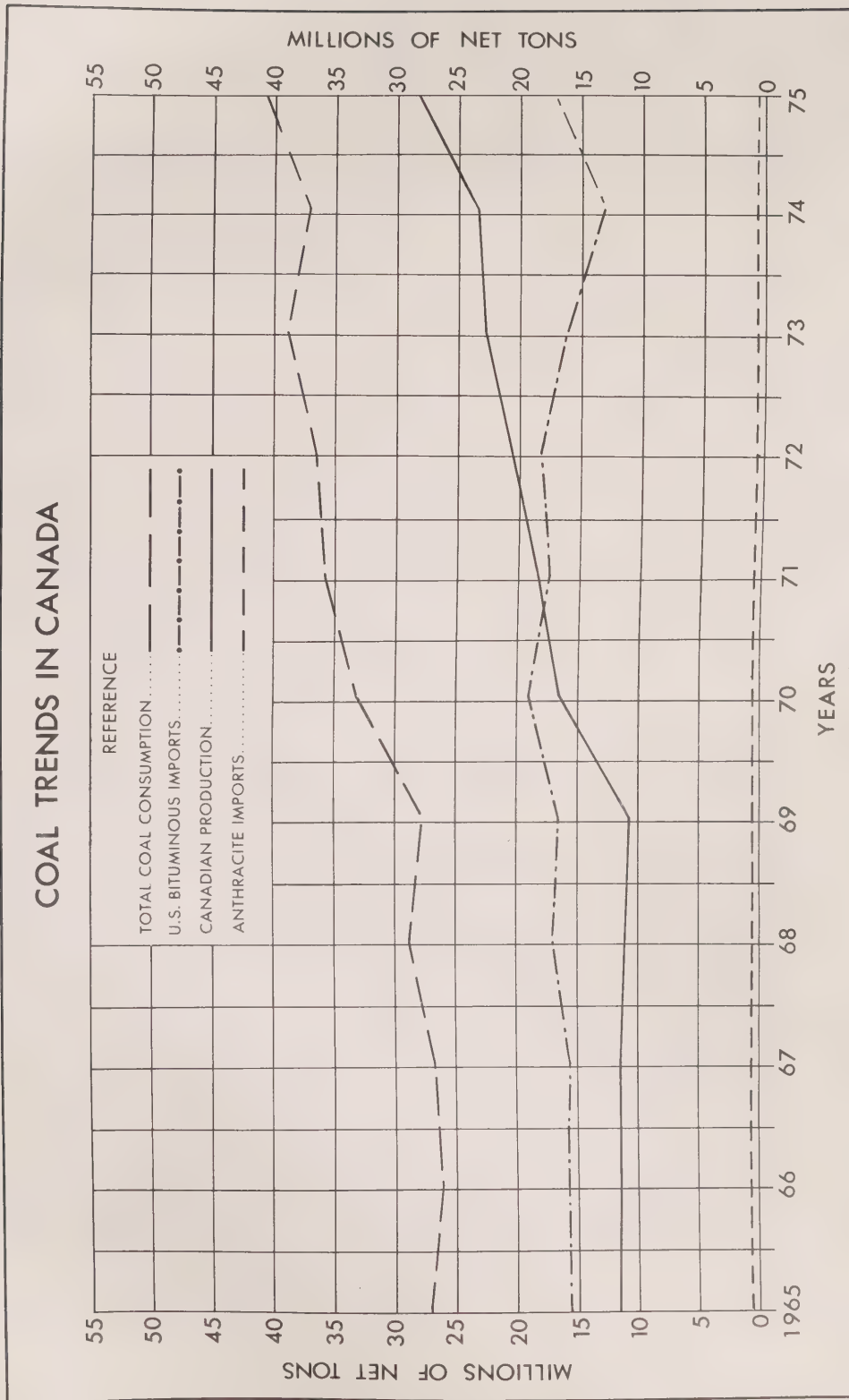


Figure 1

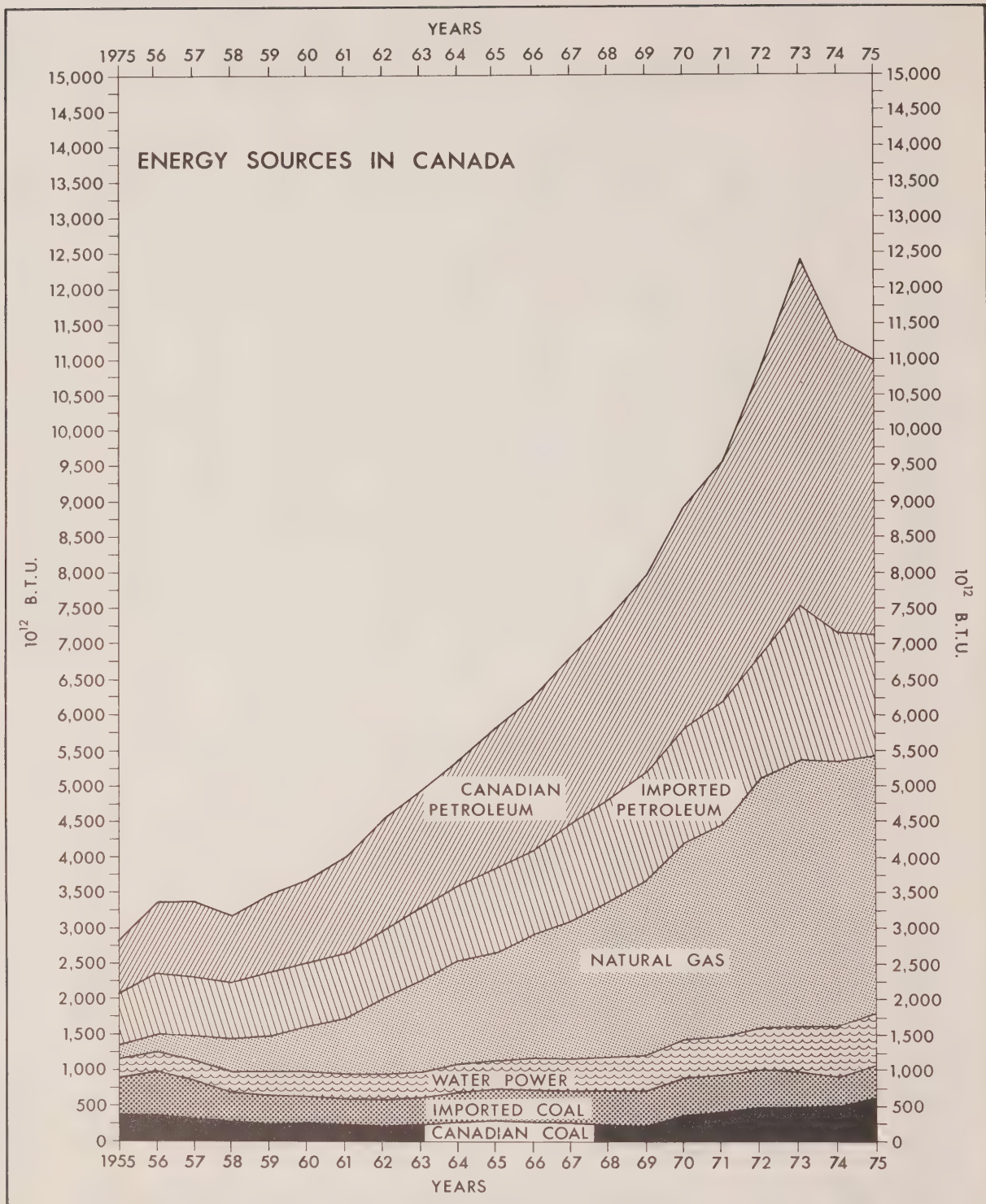


Figure 2

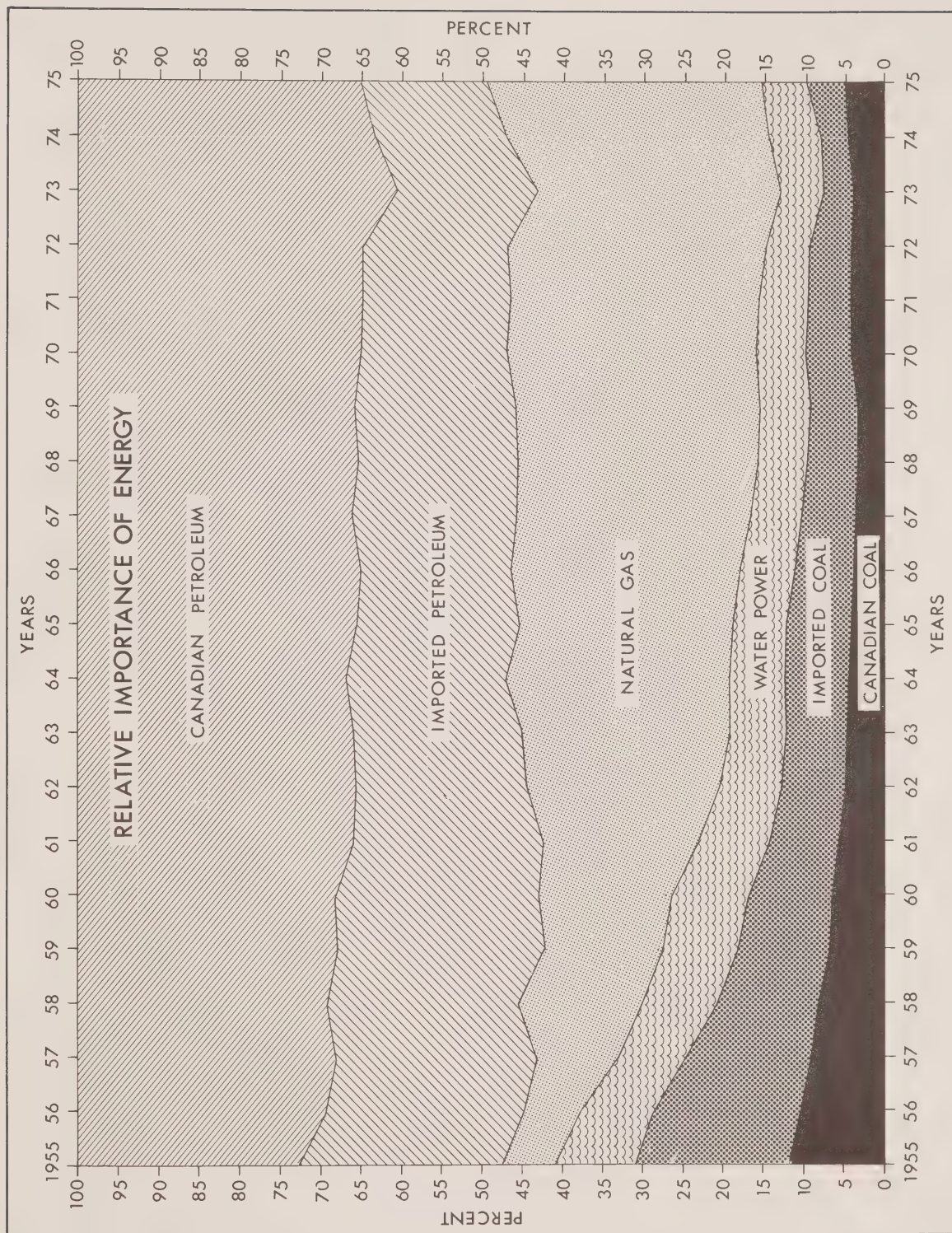
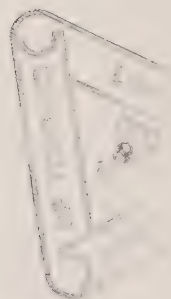


Figure 3





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